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To learn to classify is in itself an education
Alex. Bain

Decimal Classification

and

Relativ Index

for libraries, clippings, notes, etc.

Edition 10, revized and enlarged

By

Melvil Dewey MA LL D

Forest Press
Lake Placid Club N Y
1919

Nr E 7984

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EXPLANATION

The field of knowledge is divided into nine main classes and these are numbered by the digits, 1 to 9. Cyclopedias, periodicals, etc., so general in character as to belong to *no* one of these classes are marked nought, and form a tenth class. Each class is similarly separated into 9 divisions, general works belonging to *no* division having nought in place of the division number. Divisions are similarly divided into 9 sections and the process is repeated as often as necessary. Thus 512 means Class 5 (Natural Science), Division 1 (Mathematics), Section 2 (Algebra), and every Algebra is numbered 512.

The books on the shelves and the cards in the subject catalog are arranged in simple numerical order, all class numbers being decimals. Since each subject has a definite number, it follows that all books on any subject must stand together. These tables show the order in which subjects follow one another. Thus 512 Algebra precedes 513 Geometry and follows 511 Arithmetic.

Summaries. The first summary shows the ten Classes into which all topics are divided. The second summary shows the nine Divisions of each of the ten classes, and is useful as a bird's-eye view of the whole scheme on a single page. Then follow ten pages, one for each class, showing the nine Sections into which each of the nine divisions of each class are divided. These pages are to be used for a synoptic view on a single page of the scope of each class.

Sub-sections. Following these three summaries is the complete classification, which repeats, in proper order, all the classes, divisions, and sections with all the sub-sections given under each section. Synonymous terms, examples, brief notes, dates, and various catch-words are often added to the simple heads for the convenience of the user, who thus gets a fuller and clearer idea of the field which each number covers. Therefore all references to numbers should be looked up in the **full tables of sub-sections**; never in the Summaries, which are really only a table of contents of the Complete Tables.

Index. After the tables is an index, in which all the heads of the tables are arranged in one simple alphabet, with the class number of each referring to its exact place in the preceding tables. This index includes also, as far as they have been found, all the synonyms or alternative names for the heads, and many other entries that seemed likely to help a reader find readily the subject sought. Though the user knows just where to turn to his subject in the tables, by first consulting the index he may be sent to other allied subjects, where he will find valuable matter which he would otherwise overlook.

Full explanations. Detailed illustrations and rules for the many applications of this system and full explanations of its mnemonic and other important features will be found in the introduction.

INTRODUCTION

[The simplified spellings used are strongly recommended for general adoption by both the American and English Philological Associations, including nearly all prominent scholars in English now living.]

Origin and growth.—The plan of the following Classification and Index was developt early in 1873. It was the result of several months' study of library economy as found in some hundreds of books and pamflets, and in over 50 personal visits to libraries. In this study the author became convinced that the usefulness of these libraries might be greatly increast without added expenditure. Only a fraction of the good possible could be gotten from a library without catalogs, indexes, and aids, to tell librarians and readers what the collection containd on any given subject; yet, by the methods then used, this could be done satisfactorily only at a cost so great as to be prohibitiv to all but a few wealthy libraries. With rare exceptions, libraries were growing rapidly. Catalogs, made at great cost, became antiquated soon after being finisht. The methods used involvd frequent remarking and re-arrangement of the books and remaking of catalogs and indexes, as the only escape from a confusion that seriously crippled usefulness. In this repetition of work experience and skill of previous librarians were largely lost. The great need was a system which should enable each librarian to stand on the shoulders of his predecessors, and fully utilize their labors; which should make the work done to-day permanent, instead of something to be superseded within a few years, and therefore not worth doing in the best way; which should supply the best appliances, instead of leaving the young librarian not only to learn how to work, but to make all his own tools.

Seventeen years' practical use of the system here explaind proves that it will accomplish this result; for with its aid catalogs, shelf lists, indexes, and references, essential to this increast usefulness, can be made faster and cheaper than by any method not having its essential features, and, when done, are better and vastly more permanent.

Practical utility and economy are the keynotes of the entire system, and no theoretical refinement has been allowd to modify the scheme, if it would detract from its usefulness or add to its cost.

It was chiefly necessary to find a method that would index books and pamflets on the shelves, the cards of a catalog, clippings and notes of scrap-books and index rerums, references to all these items, and indeed any literary material in any form, as readily as an ordinary index guides

to the proper page of a bound book. This difficult problem has been solvd by using no reference marks except the simplest symbols known to the human mind — the Arabic numerals — and by aiding their simplicity with many practical mnemonic devices.

The system has been found on trial equally valuable for cataloging and indexing, and for numbering and arranging books and pamflets on the shelves. For notes on other uses, see p. 37.

When the first edition was published in 1876, 12 pages of tables containing the thousand sections were criticised as being altogether too elaborate for use even in a large library. As fast, however, as the Relativ Index with its remarkable powers became known, users askt for further subdivisions, and both tables and Index have steadily grown since it has been found so easy to gain the admitted great advantages of close classification, and yet avoid the old difficulties by means of the Relativ Index.

Extent of use.— The register of libraries which have actually adopted the system, though growing rapidly, is known to be very incomplete. Names are often added of libraries which have used the system for five or 10 years without our learning the fact. A careful registry is kept of the buyer of each classification printed, but we make no assumption that a library has adopted the system because it has ordered a copy of the book.

We print below a brief table showing the growth of the four editions. The nearest estimate possible gives from 200–300 libraries, besides a large number of private book owners and literary workers having the system in daily use.

		No. of pages				
Edition	Date	Preface, etc.	Tables	Index	Total	Copies printed
1	1876	12	12	18	42	1,000
2	1885	66	162	86	314	500
3	1888	4	227	185	416	500
4	1891	41	234	191	466	1,000

What is the system?— A Relativ Index[1] with a subject classification, so numberd or letterd that reference is compact, accurate, and quickly made, is the essential feature, and anything beyond this is merely the application of this plan with various helps and accessories.

[1]Tho the author is interested only in the usefulness of the system, not in questions of priority of its invention, extended investigation by others fails to show that this most important feature of the system — the relativ index, on which all else hinges — had ever before been used as here to index by a single reference the most diverse material. The relativ location had been used, but not in the present combination with the subject index, which gives it most of its value. The tables of classification, while adopting suggestions from many sources, are original in their system of arrangement and notation, and in many minor features. The decimal form and many mnemonic features of the system have not been found in earlier use, tho since their invention in 1873, this as well as the subject index and other features have been very frequently copied, often with, but oftener without, acknowledgment of their source. But the author is glad to find this system, which has cost him so much labor, doing good service even for those who neglect to mention where they found so valuable a labor-saving literary tool.

Any subject classification with a *relativ* index in which the one entry indexes a book in the ordinary way, and at the same time indexes shelves, cards, clippings, or any other literary material, is a form of this system.

Decimal form of the system.—The author has devised and experimented with several different plans of classification and notation by means of numbers, letters, and combined numbers and letters, with bases of 26, 35, (the latter accepted by Mr Cutter and now most admirably workt out in his Boston Athenæum classification), 50, 100, and 150, yet none have seemd good enough to warrant fully working out and publishing details, except that here printed, based on Arabic numerals used decimally. The wide adoption of this system is largely due to the fact that no one ever complains that a classification is too simple, while there is great danger of the complaint of complexity. The simplicity of the decimal form has so commended itself that many think of it as the only form, tho obviously it would be just as much the "relativ index system" if the classification were wholly markt by letters.

The Subject Index is the simplest application of the symbols next in simplicity to 1, 2, 3; viz. a, b, c. This use of the simplest two sets of symbols known, with their common meanings, has given the system its reputation as the simplest yet proposed.

Best known decimal form.—The decimal form means simply that the heads are groupt and numberd with the common arithmetical figures used decimally. As the system here printed is the only decimal form that has thus far been carefully elaborated and publisht, it is commonly thought and spoken of as if it alone were the only possible form of the author's original plan; tho obviously an infinite variety of "relativ index systems" in decimal form could be made by filling the outline with different heads, or with the same heads in different order.

To make out a new set of heads would involve labor and cost vastly beyond the dreams of any person who has not tried exactly this work. The time actually spent on the tables as here printed, by various competent workers, would aggregate several years and cost thousands of dollars. The uniform and urgent advice of the experienced is to adopt a poorer scheme already made rather than undertake so herculean a labor. When done, the maker may possibly be better suited with it, but it is doubtful if many others will be. It is vastly wiser for any man whose time is of value, to use it in something more practically useful to himself and his library than in trying to construct a "satisfactory" scheme of classification. No one yet ever wholly suited himself or any one else, and probably no one ever will. By adopting this scheme already workt out he saves much time and money, gains the immense advantage of using a system in common with hundreds of

others, so that he may utilize their labors and investigations and share with them the economies of coöperation.

Relativ Subject Index.—The alfabetical Index, the most important feature of the system, is as complete as could be made by combining the headings of leading catalogs and bibliografies, and adding such as users of the system have found desirable in 17 years' experience. After all these efforts, new headings will still be needed, and will be added in each new edition.

The Index is designd to guide both in numbering and in finding books. In assigning numbers, the most specific head that will contain the book having been determind, reference to that head in the Index gives the class number which should be assignd. Conversely, in finding books on any given subject, reference to the Index gives the number under which they are to be sought on the shelves, in the shelf list, or in the subject catalog. Whenever a new subject comes up, it and its synonyms, with the class-number decided on, should be interlined in the Index, so that the classifier may be uniform with himself in future work.

The Index aims to give similar or synonymous words, and the same words in different connections, so that any person of intelligence will hardly fail to get the right number. A reader wishing to know something of the tariff looks under T, and, at a glance, finds 337 as its class-number. This guides him to the shelves, to all the books and pamflets, to the shelf catalog, to the subject catalog on cards, to the index of books charged at the loan desk, and, in short, in simple numerical order, thruout the whole library to anything bearing on his subject. If he turns to the tables, he will see that it means class 3, Sociology; division 3, Political economy; section 7, Protection and free trade; but the number alone is enough to classify the book or to find it, for either cataloger or reader. If he had lookt under P for protection, or F for free trade, or D for duties, or C for customs, or under any other leading word relating to his subject, he would have been referd to 337, or some one of its sub-divisions.

Had he lookt for "railroad" he would have found after it 16 separate entries, each preceded by a catchword indicating the phase of the subject in the scheme. A book on railroads may be a treatise on the desirability of government ownership, control, etc., and then is clearly a question of social science; or it may be a practical hand-book for an employe, explaining business methods of railroading, running trains, handling freight, etc., when it is as clearly one of the useful arts. The cataloger knows to which of these heads his book belongs, and the reader knows in which of its phases he wishes to examin the subject. Moreover, the 3 and 6 beginning the numbers indicate clearly the character of each class. But even if the significance of these figures were entirely disregarded, no confusion would result, for, on consulting either of the numbers in the catalog, in the scheme, or on the shelves the difference would be clearly seen.

In other cases, it is more useful to keep the books on the same subject together, tho treated from different standpoints. A glance at the Index tells either reader or classifier which plan has been adopted for each case.

All topics printed in black-face type in the Index are further divided in the tables, where one may see the subheads. This saves reprinting all these subdivisions which would increase the bulk of the Index many-fold; e. g. if one having a book on "prison labor" looks in the Index for "Convict labor" or "Prison contracts," he finds at once its special number 331.5; but if, on the other hand, he thinks to look only for the general subject "Labor," he finds in black-face type the entry "Labor, political economy, 331," and turning to the tables he finds under 331 the subdivision "331.5, Convict labor," the exact topic in hand.

The greatest objection to a clast catalog has always been the impossibility of knowing just where to put a book in cataloging, and just where to look for it when it is again wanted. Different librarians, or the same librarian at different times, clast the same or similar books in widely different places. Where one man did all the work, and held his place for a long series of years, there was a certain degree of uniformity; but even then there was danger of looking at the same book from different standpoints, thus causing confusion. When the daily press is full of one phase of a subject, the tendency is strong to class all books on this particular subject from the current point of view; and next year, if a different side of this same subject is again before the public, there is the same tendency to class books from the new point of view, in this way separating books on the same and putting together books on different phases. But, fortunately, practical usefulness does not require that the ideas of this one or that one be followd, but only that books of the same character be always put in the same place, and that there be some means of knowing readily where that place is. The Relativ Index, with its catchwords, was designd and is found in use to meet both these requirements, for it insures that books on the same phase of any subject coming before the classifiers shall be assignd to the same place, and that any reader seeking these books shall be referd to that place. If this is done, all requirements of a good classification are fild. If it is not done, the system is a failure; for the only real test of any scheme is its helpfulness to workers in the library.

Some prominent opponents of clast catalogs admit that the Relativ Subject Index, in deciding where to class a book at first, and where to look for it ever afterwards, has removed their strongest objections. Certainly it would be impossible to make an Index more compact or more easy of reference.

This Index allows a great portion of the work of classification to be

done in advance by experts, thus securing, at the merest fraction of the usual cost, better and more uniform results than would be possible to the ordinary cataloger, and reducing the labor of classing a library to much narrower limits than ever before.

Each of these thousands of subjects has been carefully assignd its number, many of them after long consideration and consultation with specialists. No individual is sufficiently learned to class wisely books on all subjects and sciences; but botanists can assign all botanical subjects to the right number, mathematicians all mathematical topics, and thus the Index will in time become as accurate as the best scholarship of the day can make it. Even if the decision reacht were not the wisest possible, all practical purposes are servd, because, as each cataloger copies the number from the same index, all books on that subject will be placed together; and, as each reader gets his number from this same Index, he will go directly to the books he seeks.

What the Relativ Index includes.— Most names of countries, towns, animals, plants, etc. have been omitted, the Index containing only those which are in the tables; e. g. it cannot enumerate all the species of trilobites, but when the classifier has found from the proper reference books that Remopleurides is a trilobite, the index will send him to 565.39, and he can classify his monograf on that subject.

Tables.— The essential complement of the Subject Index is the tables of classification, so mapt out as to show in four ways — viz., by size of type, face of type, indention, and number of figures prefixt — the rank of each subject in the classification.

The field of knowledge is divided into nine main classes, numberd by the digits 1 to 9. Cyclopedias, periodicals, etc., so general in character as to belong to *none* of these classes, are markt *nought*, and form a tenth class; e. g. class 1 is the library of Philosophy; class 5 is the library of Science; class 9, of History, etc. These special classes or libraries are then considerd independently, and each one is separated again into nine special divisions of the main subject, numberd from 1 to 9, as were the classes, general works belonging to *no* division having *nought* in place of the division number. Thus 59 is the ninth division (Zoölogy) of the fifth class (Science). A third division is then made by separating each of these divisions into 10 sections, numberd in the same way with 0 and the nine digits; and this decimal subdivision is repeated, till it secures as many subsections as may be needed in any topic. Thus 513 is the third section (Geometry) of the first division (Mathematics) of the fifth class (Natural science). This number, giving class, division, section and sub-section, if any, is calld the classification or the class number, and is applied to every book and pamflet belonging to the library. All geometries are thus numberd 513, all mineralogies 549, and so thruout the library all books on any given subject bear the number of that subject in the scheme.

Where 0 occurs in a class number, it has its normal zero value. Thus a book numberd 510 is class 5, division 1, but *no* section; i. e. the book treats of division 51 (Mathematics) in general, and is limited to no one section, as is geometry, markt 513; 500 indicates a treatise on science in general, limited to no division. A naught occurring in the first place would in the same way show that the book is limited to no class; e. g. a general cyclopedia which treats of all nine classes.

Choice and arrangement of heads.—The selection and arrangement of the many thousand heads of the classification cannot be explaind in detail for want of space. In all the work, philosophical theory and accuracy have been made to yield to practical usefulness. The impossibility of making a satisfactory classification of all knowledge as preservd in books, has been appreciated from the first, and theoretical harmony and exactness have been repeatedly sacrificed to practical requirements.

Sequence of allied subjects.—Wherever practicable, heads have been so arranged that each subject is preceded and followd by the most nearly allied subjects, and thus added convenience is secured both in catalogs and on shelves; e. g. Building (690) follows Mechanic trades (680) at the end of Useful arts, and Architecture follows at the beginning of Fine arts.

The student of Biology (570) finds fossil life or Paleontology (560) before, and vegetable life or Botany (580) after, this followd in turn by animal life or Zoölogy (590), ending with Mammals (599); while Useful arts (600) begin with human Anatomy (611) under Medicine, thus giving a regular growth from the fossil plant thru the vegetable and animal kingdoms to the living man.

Co-ordination.—Theoretically, the division of every subject into just 10 heads is absurd. Practically, it is desirable that classification be as minute as possible, without use of added figures; and the decimal principle, on which our scheme hinges, allows 10 divisions as readily as a less number.

This principle has proved wholly satisfactory in practice, tho apparently destroying proper co-ordination in some places. The difficulty in such cases is entirely obviated by the use of another figure, giving nine sub-sections to any subject of sufficient importance to warrant closer classification. In history, where classification is made chiefly by countries, a single figure is added, as in the other classes, to give a tenfold geografical division, and a zero followd by another figure is added to give a division into periods.

As all history is by countries, and as minute geografical subdivisions are needed for travels, guide books, and various other uses, the rule is adopted always to use 0 before the time or period figure. The 0 shows that there is no farther geografic division in that number, and that a period division is there introduced. This allows the use of

the same period division in various places, e. g. 942.05 England in time of the Tudors; 942.905 Wales under the Tudors; 942.7405 Yorkshire under the Tudors. As each figure added gives a tenfold division, any desired degree of minuteness may be secured in classing special subjects.

As in every scheme, many minor subjects are under general heads to which they do not strictly belong. In some cases, these heads are printed in a distinctiv type; e. g. 429 Anglo-Saxon, under English philology. The rule has been to assign these subjects to the most nearly allied heads, or where it was thought they would be most useful. The only alternativ was to omit them altogether. If any such omission occurs, it will be supplied as soon as discoverd, the intention being to provide a place in the tables for every known topic.

New subjects.— When any new topic arises, it is always closely related to some existing heads. If there be no blank space left for it, it is combined with the head nearest allied, and, if desired, by adding a decimal place abundant room is made for the new comer. The system is thus capable of unlimited expansion, and can never break down for lack of room for growth.

Catch-titles.— In naming headings, strict accuracy has often been sacrificed to brevity, for short familiar titles seemd more important than that the names given should express with fulness and exactness the character of all books catalogd under them. Many subjects, apparently omitted, will be found in the Index, assignd, with allied subjects, to a head which bears the name of the most important only. Reference to this Subject Index will decide at once many doubtful points.

Form distinctions.— The classification is mainly by *subject* or *content* regardless of form; but an additional form distinction for general treatises is found practically useful.

Thus, in Science there are many compends, dictionaries, essays, periodicals, and societies, treating of Science in general, and so having 0 for the division figure, but treating it under different forms, and, therefore, divided into sections according to this form: 501 for philosophy or theories of Science, 502 for compends, 503 for dictionaries. This treatment is as nearly as practicable uniform in all classes. Creasy's "Fifteen decisive battles" is 904, the first figure being 9, because the book is clearly history; the second figure 0, because limited to no division of class 9; and the third figure 4, because the book is a collection of essays.

These form distinctions are introduced at the beginning of the class because the number of general works is large, and these first numerals would otherwise be unused. They apply only to general treatises, which, without them, would have a class number ending in two naughts.

This form distinction is often used to subdivide general works on

divisions or even sections; e. g. under 510, works on mathematics in general are divided by form into 510.3, dictionaries of mathematics; 510.4, essays; 510.5, periodicals, etc., just as works on Science in general were divided. A dictionary of mathematics is 510.3, not 503, because every book belongs to the most specific head that will contain it; so 503 is limited to dictionaries or cyclopedias of science in general. Books treating of many subjects, such as general cyclopedias or periodicals, go in class 0, and are then divided by form into cyclopedias, periodicals, or societies.

Form divisions always have the same set of numbers, preceded by 0, viz.: 1, philosophy, theories, etc.; 2, compends, outlines; 3, dictionaries, cyclopedias; 4, essays, lectures, letters, etc.; 5, periodicals, magazines, etc.; 6, societies, associations, transactions, reports, etc.; 7, education, study, teaching, training, etc.; 8, polygraphy, collections, etc.; 9, history. Thus a periodical on any subject has the subject number followd by 05; e. g. a periodical on public health, 614.05.

But if the number already ends in 0, 0 is not repeated before form-division figures; e. g. a zoölogical magazine is 590.5, not 590.05.

Minute classification.— On first publication in 1876, a common criticism was that 1,000 heads could never be successfully used, however desirable so close classification might be. As soon, however, as actual experience proved it as easy to use 1,000 heads in the new system as 100 in the old, the obviously great practical value of close classification led one user after another strongly to urge the publication of subdivisions. This is now done in such a way that one may use the whole or any part of the sub-sections and ignore the rest without difficulty or confusion, thus allowing each to use minute subdivisions where he wishes or needs them, without being forced into refinements in subjects where he has few books or little interest. The first three figures only may be used as before, and the rest show the scope of the subject. On many topics minute sub-sections are printed simply for this purpose, and for use in indexing periodicals, transactions of societies, and in keeping notes.

The advantage of close classification is unquestiond, if the user knows just what it is. With this plan it is not only practicable, but comparativly easy. If there are only 10 books on a given topic, it is useful to have them in groups among themselves, for otherwise they would have only accidental order, which is of service to no one. A reader wishing a specific book should go, not to the shelves, but to the Author-and-title catalog, where he can find its place quickest. If he wishes a specific subject, he is sent instantly to the exact place by the Subject-Index. If he wishes to study the library's resources at the shelves, he will be *greatly helpt by the most minute classing.* A teacher showing his pupil the material on any subject, if there are only 20 books, would surely put together those covering the same points, if

there are even two. Much more should librarians group closely their greater collections, that readers may gain something of the advantages of an experienced guide.

Thus every specialist has his own special library. If a student of science in general, he is sent to class 5; if his department be zoölogy, his library is 59; if his specialty is shells, he finds all works and references on that subject in library 594. Whether a specialist needs it or not, every subject being a library by itself, shows resources and wants as no catalog can show them. A catalog cannot be made to take satisfactorily the place of handling books themselves. This advantage weighs most in a college or society library, where many go to the shelves; but even if librarians only are admitted, close classification is worth its cost in the added power it gives.

Mnemonics.— Arrangement of heads has been sometimes modified to secure mnemonic aid in numbering and finding books without the Index; thus China has always the number 1. In Ancient History, it has the first section, 931; in Modern History, under Asia, it has 951. Similarly the Indian number is 4; Egyptian, 2; English, 2; German, 3; French, 4; Italian, 5; Spanish, 6; European, 4; Asian, 5; African, 6; North American, 7; South American, 8; and so for all divisions by languages or countries. Italian 5, for instance, is in 035, 055, 065, 450, 850, 945, and many others. This mnemonic principle is specially prominent in Philology and Literature, and their divisions, and in *form* distinctions used in the first nine sections of each class. Philosophy, methods, or theory occurring as a head is always 1; dictionaries and cyclopedias, 3; essays, 4; periodicals, 5; associations, institutions, and societies, 6; education, 7; polygraphy or collections, 8; history, 9. In numerous cases several minor heads are groupt together as Other, always numbered 9.

While Italian is always 5, 5 is by no means always Italian. Grammar is 5, Periodicals are 5, Asia is 5, Oratory is 5, etc. Even were it possible, to limit 5 to Italian would waste numbering material, and results would not justify cost. The purpose is to give practical aid, not to follow a fanciful theory. A cataloger marking a German grammar, remembers that all Philology begins with 4, and, as German is always 3 and grammar 5, he knows the number must be 435. Italian (5), poetry (1), is as plainly 851 with no danger of being mistaken for "poetry of grammar" or "theory of Asia;" because the numbers also have that meaning. This feature is an *aid*, not the regular method, and in all doubtful cases one refers at once to index or tables. Suggested difficulties are usually creations of ingenious theorists and not an outgrowth of practical experience in using this plan.

Wherever practicable, this mnemonic principle is used in subdividing sections. 558, Geology of South America, is subdivided by adding the *sections* of 980, History of South America. Geology of Brazil then

must be 558.1: mnemonically, the first 5 is the Science number; second 5, Geology; 8, South America; and 1, Brazil. Any library attendant or regular user of the scheme recognizes at a glance 558.1 as Geology of Brazil. This mnemonic feature occurs in several hundred places in the classification, and is of great practical utility in numbering and finding books without catalog or index, and in determining the character of any book simply from its call number. The extent of its use is shown in the four tables appended to the main Index, giving alfabetical lists of (1) subjects, with class number of each, which may be subdivided geografically; (2) form divisions, with the figures to be added in making such division; (3) languages, with their class numbers, which may be further subdivided philologically by adding the figures given in Index table 4; (4) philological divisions, with the figures to be added in subdividing any language in Index table 3.

As in close subdivision, the wish for mnemonic correspondence has never outweighd any claim of greater usefulness. In many cases choice between numbers was hardly perceptible, e. g.: whether in philology the order should be French, Spanish, Italian, or French, Italian, Spanish. In such cases mnemonic numbers were given preference, and 17 years has proved this wisest. Great gain, beside ease of remembering, results from this uniform use of the same numbers with the same meaning whenever a similar division is made. Wherever a division by languages or countries is made, it follows philology or history numbers, and in the tables, the note "Divided like 900" fully takes the place of reprinting all the history subdivisions. This saving justifies use of these numbers in some cases, even where a somewhat different order might seem more nearly fitted to the special case; e. g. in 342 an order which would put the constitutional history of Canada (342.71) and Australia (342.94) next that of England (342.42) would be better adapted to the special case than the actual order which separates them both from England and each other. Still by following the usual "procrustean" numbers, many topics can be subdivided minutely without further study, by simply applying the History or Language subdivisions. A single illustration of the astonishing power this principle gives will suffice, tho there are thousands that might be given: 016 is "Bibliografy of special subjects, divided like the regular classification," therefore by aid of the tables under 581, 016.581974742 readily translates itself to users of the system into "Bibliografy of the flora of Albany co., N. Y." While these 12 figures might never be used, if a specialist wishes minute division, it is ready to his hand, conforms to the Index, and will be clearly understood by any one familiar with the plan. A specialist in such cases would probably adopt a contraction for his long number, and use in full only the minute divisions. See p. 35 for such contractions.

Decimalism.—We have not sacrificed utility in order to force sub-

jects on the decimal procrustean bed. *Decimals have been used as servants, not as masters.* When subjects have been combined or separated into just 10 heads, it has been from no necessity of the scheme, but because it seemd the most useful way, all things considerd. In many cases there were at first only three to seven heads instead of 10; but usually, during three years of testing before first publication, it was found useful to divide some of these heads, and, as it took no added space or labor, there was no objection to it. On the other hand, there were cases where more than 10 heads seemd more natural; and, as any number up to 100 is provided for by adding one decimal place, this was done in most cases. As only 1000 sections were first printed, it was often necessary to put two or more closely allied topics together under the same number, as must still be done whenever a library limits the number of figures used to three; but during the 14 years that the system has been in print, subdivisions have multiplied, till now every important topic has its own special number. The scheme gives us for each topic, as it were, a case of nine pigeon-holes, with a large space at the top; and we use them as every practical business man uses such pigeon-holes about his desk. If, as in 220, there are less than nine main topics, it is often convenient to use the extra spaces for subdivisions. Thus we keep separate, under the Old Testament, the historical, poetical, and profetical books; and under the New Testament, the gospels, epistles, and apocalypse. The spaces are there, and it is convenient to use them,—a reason that experience proves a good answer to the charge of lack of coördination, tho indention and type in the tables make that charge baseless. Then in 280, having more than nine topics,—if we are using only three figures,—we put Congregational in the same space with Presbyterian, and all the little denominations together in the last box, just as the business man puts his papers in his pigeon-holes. If he insisted on having a different case made to order for each use, it would cost over twice as much; he could not group them together or interchange them, and they would not fit the shelves of his office as now.

There has been a perverse misapprehension of this feature, and critics oftenest stumble over "procrustean 10." In fact, this is an element of usefulness. A railroad also has the fault that it is procrustean in its path and in its times. It cannot come to your door nor wait your convenience, as did the stage-coach or carriage; it cannot go to the fields for its loads of produce; it cannot turn out for obstacles; and it is simply because it is procrustean that it can do its work so much better and quicker and cheaper. The parallel could be fairly extended to many other cases, but any thoughtful mind will recognize that the economy and ease of working the Decimal system are dependent on its being procrustean. Without it we should lose the great simplicity of the Relativ Index, many mnemonic correspondences, and the useful

0 to indicate form and period divisions. Our intersecting lines of space and time in History, etc., of language and form in Literature and Philology, and scores of similar advantages, depend wholly on procrustean 10, or else on some other number equally procrustean, but lacking the advantages of exact correspondence to our arithmetic.

Relativ location.—Economy and simplicity called not only for the Subject Index, but also for some plan of consolidating the two sets of marks heretofore used; the one telling of what subject a book treats, the other where the book was shelvd. By relativ location and decimal class numbers we have made our simple Arabic numbers tell of each book and pamflet, both *what* it is, and *where* it is.

In arranging books on the shelves, absolute location by shelf and book number is wholly abandond, relativ location by class and book number being one of the most valuable features of the plan. Accompanying the class number is the book number, which prevents confusion of different books on the same subject.[1] In finding books, the printed numbers on the backs are followd, the upper being the class and the lower the book number. The class is found in its numerical order among the classes, just as the shelf is found in the ordinary system. Shelves are not numberd, as increase of different departments, opening of new rooms, and any arrangement of classes to bring books most circulated nearest the delivery desk, will at different times bring different class numbers on any given shelf. New books, as receivd, are numberd and put in place, in the same way that new titles are added to the card catalog.

Thus all the books on any given subject are found standing together, and no additions or changes ever separate them. Not only are all the books on the subject sought found together, but the most nearly allied subjects precede and follow, they in turn being preceded and followd by other allied subjects as far as practicable. Readers not having access to the shelves find short titles arranged in the same order in the shelf list, and full titles, imprints, subject and cross references, notes, etc., in the subject catalog.

Parts of sets, and books on the same or allied subjects, are never separated as they are sure to be, sooner or later, in every library arranged on the common plan, unless it be frequently re-arranged and recatalogd. The great expense of this makes it impracticable except for a few wealthy libraries. In this system both class and book numbers remain unchanged thru all changes of shelving, buildings, or arrangement.

Among hundreds of points raisd by librarians as to its practical workings and usefulness, the only one in which it was not shown to be equal or superior to the old systems was that in this relativ location a

[1]For suggestions regarding forms of book numbers best used with this scheme of classification, see p. 30.

book which this year stands, e. g. at the end of a certain shelf, may not be on that shelf at all another year, because of uneven growth of the parts of the library. This slight objection, however, inheres in any system where books are arranged by subjects, rather than by shelves, windows, doors, and similar non-intellectual distinctions.

Sizes on shelves.—Most libraries have abandond close distinction of sizes. It is true that this distinction saves a little space, but at far too great a cost; for every distinction of sizes makes a parallel classification. If books are groupt in five sizes, one must look in five places before he can be sure of having seen all the books.

It is better to shelve octavos and all smaller books together in one series, and arrange in parallel libraries only quartos and folios, which are too large to stand on the regular shelves, showing the series in which any oversize book is put by a size letter prefixt to the book number; e. g. 749 qA, to show that book A on Artistic furniture is too large for the regular shelves, and so is placed in the q or quarto series. Another way is to use a wood or pasteboard dummy, to show the location of a book not in its regular place. But, however solvd, there is no conflict between the size problem and the Decimal Classification.

CATALOGS

Any system of catalogs may be used with this scheme. But the two essentials of even the simplest system are the author (or preferably name) catalog and the shelf list. The chief use of the system for catalogs is for the latter and for the clast catalog on cards.

Name catalog.—In the name catalog on cards, arranged strictly by names of authors and of persons or places written about, the class number holds a subordinate place, yet is constantly useful. If printed, it appears in a single colum as in the Relativ Index, and, where there is no subject catalog, one can rapidly pick out the books on any desired topic by glancing down the colum for the class number wanted.

Shelf list.—In the shelf list the class number is again highly important, as it makes of the list the most useful form of brief subject catalog. Each page gives in colums accession number, author's name, and brief title of every book in the library on the specific subject bearing that class number.

Subject catalog.—In the card catalog of subjects the classification is mapt out above the cards by projecting guides, making reference almost instantaneous. Subjects are arranged in the 1, 2, 3 order of their decimal subject numbers exactly as in the classification tables, and the cards of each subject are then further arranged alfabetically by authors.

The printed subject catalog on this plan is also the most compact and satisfactory in use. Under each class number are given the resources of the library on that subject, the heading giving for conven-

ience the name as well as the number of the subject; e. g. "513 Geometry." General notes are printed in finer type under general heads, and an index at the end shows where to open the book to find any topic. As class numbers are put in place of page numbers, this index serves for any catalog, list or library arranged on this plan.

Dictionary catalog.— While it is as easy to use the dictionary catalog with this system as with any other, we find the common dictionary catalog inferior to the clast, for nearly all practical purposes. The dictionary plan, if used in a catalog, must give results very unsatisfactory to students, or else very expensiv to makers.

The failure of the dictionary catalog to meet the requirements of the scholar has been often pointed out. While it is far the best for an index, there still exists much of the same need of a good clast catalog as at the first. But the difficulties in the way both in making and using such a catalog have heretofore been so great that there has been a conviction among many practical librarians that notwithstanding its great advantages, the idea must be abandond as impracticable, while other eminent authorities have ably argued that the poorest clast catalog is better than one unclast, and that any use of such a catalog is in itself a lesson in bibliografy. Now that the serious difficulties of making a good clast catalog have been so largely removed by the simple numbers and Relativ Index of the decimal plan, the merits of the clast over the more common dictionary system are becoming doubly prominent.

The Subject Index of this system is a skeleton dictionary catalog, covering everything not fully covered by the "name catalog." Instead of giving the book titles under each head, the number refers to all those titles simply and directly. The index may be made on any of the various dictionary plans, with all the advantages it may possess. To us the simplest seemd the best. We give only short headings with a brief indication in doubtful cases of the point of view taken in assigning the class number.

We therefore unite the advantages of the dictionary and clast catalogs, not by mingling them together, and so losing much of the simplicity of one and as much of the excellence of the other, but by really using both, each with its own merits. Only one set of titles is needed, for the class numbers make them available for both catalogs.

ADVANTAGES

Shelves.— The system on the shelves is the simplest form of relativ location. Many libraries have adopted it for shelf arrangment, where catalogs recently printed, or large investment in another plan, made it too expensiv to change anything else. The advantages here have been already mentiond under Relativ location, p. 19.

Shelf list.— By simply printing the shelf list at any time, a subject class list of the best kind is made for any topic on which there may be

present interest; e. g. if a town contemplates a new water supply, interest is greatly stimulated, and everything about water-works is wanted. The librarian has only to open his shelf list to 628.1 and 352.6 and print it. This great advantage is gaind with but slight variation from the form found best in its regular use as a shelf list for yearly examination of the shelves to detect losses and misplacements.

Accession book.— From the accession book, tables of the number of books added on each subject are readily made from the shelf mark colums. A glance at it shows the character, by subjects, of the books added during any given period, for, wherever this class number occurs, it tells not only where the book is shelvd but also what it is about.

Pamflets.— These class numbers applied to pamflets have proved specially satisfactory. The number is written on the upper left corner, and the pamflets are shelvd in pamflet cases side by side with books on the same subject, or they may be kept on special shelves divided every 10 cm. by perpendicular partitions. Little expense is incurd, and yet the entire pamflet resources of the library on any subject can be produced almost instantly. The immense advantages of this plan over those in common use, both in economy and usefulness, will be appreciated by every librarian in charge of a pamflet collection. A name or author catalog is made on slips if time allows. The pamflets themselves are the best subject catalog. Uncatalogd pamflets treating of any subject bear the same class number, and are arranged on the shelves in a case immediately before or after the books of each section, or, if preferd, each pamflet may be put in exact place as if bound.

The tendency grows to put all material under its class number on the regular shelves, for the same reasons that have led to giving up division by size of books. One examining a subject likes to see all the resources in one place so far as possible.

Sale duplicates.— The same arrangement is admirable here. They are so constantly changing that a catalog can hardly be afforded, and a subject arrangement on any other plan than this is difficult to maintain. Still, it is very essential that there be some means of knowing what duplicates there are on any given subject. By simply penciling the class number on the books and arranging them numerically, it is possible to give this information more quickly and more satisfactorily than by any other method, and at the same time with less expense.

Charging system.— Here as elsewhere it serves all ordinary purposes, with special advantages of its own. On the library accounts the character of each person's reading is clearly indicated by the numbers charged, and minutest statistics of circulation in any subject are made by simply counting the call slips in the register or check box, and entering the number against each class in the record. The whereabouts of any book wanted, or the amount of use of any subject, is seen at a glance. This decimal check box can be used in any system. Its

peculiar advantage with this classification is that it always exhibits, correct to the hour, a complete table of all books off the shelves in each subject. The slips in box 53 show just how many and what books are out in Physics; the slips under 823 show all the English novels in circulation, and who have them. Such a table of circulation always at hand, and without an item of expense or labor,—for the check box is necessary as a record of loans,—is highly prized by all interested in the character of books read, and at no time has so much wise attention been given to educating the taste of readers in our public libraries as at the present. To convert this table into permanent statistics involves only the trifling labor of recording as often as desired.

Subject references.— In no place are the peculiar advantages felt more than here. Many users of the system are undertaking analyses and cross references to an extent not hitherto thought practicable or hardly possible. These few figures tell as clearly as a long heading exactly what the reference is, while the gain in ease of use is even greater than the time and space saved in recording. The clearness and directness of the method aid wonderfully in this work. References to transactions, or chapters in essays, may be made in the most compact and usable form.

Recataloging.— When Amherst College in 1873 adopted the plan, and began to recatalog its library, it was found entirely practicable to make the change to the new system gradually, as means allowd, without interfering in any appreciable degree with the circulation of the books. The methods employd for thus changing without interrupting use must vary according to the different conditions of each case. The essential feature is some distinction between old and new call-numbers, sufficiently markt to be easily recognized by attendants. Since call-numbers ordinarily consist wholly of figures, the initial letter of the Cutter author-numbers furnishes this requisit. All numbers consisting of figures only are then recognized as belonging to the old, and all numbers containing a letter as belonging to the new system.

Adaptability.— The system is so flexible that it adapts itself to almost any circumstances. It may be used in almost any one of its applications without the others, and with a proportionate result. It may be applied to pamflets alone, bringing order out of chaos, and solving this vext and vexing problem; or it may be used for the catalogs, leaving the arrangement on the shelves as before; or it may be applied to the shelves, while the catalog is on the dictionary or any other plan, and so on.

Arabic numerals.— Arabic numerals can be written and found quicker, and with less danger of confusion or mistake, than any other symbols. Therefore, Roman numerals, capitals and small letters, and similar symbols usually found in systems of classification, are entirely discarded, and by exclusiv use of Arabic numerals thruout the sheives,

indexes, catalogs, and records, there is secured the greatest accuracy, economy, and convenience. This advantage is specially prominent in comparison with systems where the name of the author or the title must be written, in calling for or charging books and in making references.

Endowment of special departments.— Another great advantage of this plan is its peculiar adaptability to the plan of endowing special departments. One specially interested in any subject can often be induced to endow that subject with a sum, of which the income shall each year buy all the best books that appear on it.

If John Doe is specially interested in the opera, the library says to him: "Give us $1000 as an endowment of 782, and we will call it the Doe Library of Dramatic Music. There will be found every book, pamflet, newspaper clipping, or ms. that the library has or can get on this subject. Gifts from others will be placed in the Doe Library, the donor's name being given on the book-plate, and for generations to come every person interested in the opera will be grateful for your foundation." In this way 782 is assignd to John Doe, and his pride is stimulated in developing it. If another man with larger means and interest will endow the whole subject of music 780, there is no difficulty or impropriety in including 782, the Doe Dramatic Music Library as the second section of 780, the Roe Music Library.

This is one of the most promising fields for development, for almost every library has among its readers some specially interested, who if properly approacht would endow some topic, even if a small one, and this relativ location, with its definit number expressing just the ground coverd, may be of great service in working up this plan of special endowments.

Summary.— The claims of the system may be sumd up as follows: Compared with other systems it is less expensiv; more easily understood, rememberd, and used; practical rather than theoretical; brief and familiar in its nomenclature; best for arranging pamflets, sale duplicates, and notes, and for indexing; susceptible of partial and gradual adoption without confusion; more convenient in keeping statistics and checks for books off the shelves; the most satisfactory adaptation of the card catalog principle to the shelves. It requires less space to shelve the books; uses simpler symbols and fewer of them; can be expanded, without limit and without confusion or waste of labor, in both catalogs and on shelves or in catalogs alone; checks more thuroly and conveniently against mistakes; admits more readily numerous cross references; is unchangeable in its call numbers, and so gives them in all places where needed, as given in no other system; in its index affords an answer to the greatest objection to clast catalogs, and is the first satisfactory union of the advantages of the clast and dictionary system.

SUGGESTIONS TO USERS

In referring to tables, hold the book in the right hand and turn with the left, then the class numbers show very plainly on the left margin and reference is greatly expedited. Some prefer to hold the book in the left hand, but in any case the eye should follow the left pages wholly.

PLAN OF BOOK

Tables.— The first page of tables shows the 10 classes into which all topics are divided. The next page, showing the nine divisions of each of the 10 classes, is a bird's-eye view of the whole scheme on a single page. Then follows a synoptic view of 10 pages, one for each class, showing the nine sections of each division of each class.

Following these synopses is the complete classification, which repeats in proper order classes, divisions, and sections, with all their subsections. For the convenience of the user, who thus gets a fuller and clearer idea of the field which each number covers, synonymous terms, examples, brief notes, dates, and various catch-words are often added to the main heads. Therefore all references to numbers **should be lookt up in the full tables** of subsections, using the summaries when only a synoptic view is wanted.

Index.— Next is an alfabetical index of all the heads, referring by class number to the exact place of each in the preceding tables. This Index includes also, as far as found, all synonyms or alternativ names for heads, and any other entries that seemd likely to help a reader find his subject readily. Tho the user knows just where to turn to his subject in the tables, if he consults the Index, he may be sent also to other allied subjects, where he will find valuable matter which he might otherwise overlook.

Numeration.— In thinking or speaking of the class numbers, to avoid confusion **always divide at the decimal point, and name it**; e. g. read 942.27 "nine forty-two, point twenty-seven," never "ninety-four two twenty-seven." If "point" were omitted, the ear might readily interpret 270.2 (two seventy, two) as 272, while "two seventy, point two" can never be misunderstood.

Familiarity with classification.— Get a general knowledge of the scheme by learning the 10 main classes [you will soon know the 100 divisions also without special study], so that you can tell to what subject a given number belongs from its first figure without referring to the tables. Specific knowledge of minute divisions will come gradually, but rapidly, from use. Using the tables alone, and then always verifying your result by the Index, you will more rapidly acquire knowledge of the classification and facility in its use. To do this, decide first to which of the 10 classes the subject belongs; next, take that class as if

there were no other, and decide to which of its 10 divisions the subject belongs; then, in the same way; select section and subsection, thus running down your topic in its grooves, which become tenfold narrower at each step. **As a check against error, use the index freely, even** tho familiar with the scheme.

Subject of a book.— To find out the subject of a book consult: —

1. **The title,** since it is generally chosen to show what the book is about. But as many titles are misleading, never class from title alone, but always examin also

2. **Table of contents,** which is the best guide to the true subject. If there is no table of contents read

3. **Headings of chapters,** or marginal topics.

4. **Preface.**— Unless already certain, glance thru this to catch the author's point of view, and verify impressions gaind from title and contents.

5. **Reference books.** — If preceding means fail, consult reliable bibliografies, clast and annotated catalogs, biografical dictionaries, histories of literature, cyclopedias, reviews, etc., for information about the character of the book.

6. **Subject-matter.**— If the five shorter methods above fail, examine the subject-matter of the book itself, and if still in doubt, to avoid mistakes, put aside on an "under consideration" shelf till you can examin more thuroly or consult

7. **Specialists.**— Experts, competent to define their true subject and relation, are usually glad to examin enough to class any new books in their departments. Old ones they know where to put already.

After deciding what the book is about, find this subject in the tables, either thru the Index or by using the tables directly, which for the beginner is a longer process, seldom to be trusted without subsequent reference to the Index; e. g. *Pollock's Land laws* might naturally be clast from the tables alone as "333, Land; ownership; rights; rent," which seems exactly to fit this book. The Index, however, shows two numbers, both referring to land laws, but from different points of view; viz. 347.2, legal, and 333, economic. The object of this book, as seen in the preface, is to give a popular presentation of English statutes pertaining to landholding, not to discuss the history and theory of land laws from the economist's point of view; and it should be clast "347.2, Realty," which might have been mist but for the Index.

Assigning class numbers.— 1. Practical usefulness is the chief thing. Put each book under the subject to the student of which it is most useful, unless local reasons "attract" it to a place still more useful in your library. See p. 27[9].

2. The *content* or the real subject of which a book treats, and not the *form* or the accidental wording of the title, determines its place.

Following this rule, put a philosophy of art with Art, not with Philosophy; a history of mathematics with Mathematics, not with History; for philosophy or history is simply the *form* which these books have taken. Their true content or subject is Art or Mathematics, and to the student of these subjects they are most useful.

3. Always remember that the question is not where one would probably look to find a particular book, but under what subject is the book of greatest value; e. g. it is of little consequence whether "one would be apt to look" under 595.1 for *Darwin's Formation of vegetable mould*, but of much consequence that one studying earth-worms should find that book in 595.1 Worms, since it is chiefly valuable as a study of the habits of earth-worms. Any one wanting that special book would look for it in the name catalog under Darwin.

4. Assign every book to the most specific head that will contain it. This will vary in different libraries according to the number of figures used, e. g. the specific head for "compulsory vaccination" is 614.4738; but in a library using only three figures, the most specific number possible is 614, which must take everything on Public health.

A library recently adopted the plan of putting all books of a division together, if they had but few; e. g. all mathematical works were markt 510. It took just as many figures, cost just as much labor in most cases, and, if a man wanted the one calculus in the whole library, he had to search through the 150 volumes in 510, when otherwise he would instantly have found it standing alone as 517. See also "Number of figures in class number," p. 28[7].

5. The predominant tendency or obvious purpose of a book usually decides its class number at once. Still a book often treats of two or more different subjects. In such cases assign it to the place where it will be most useful, and make references under all subordinate subjects. Give these reference numbers both on book plate and subject card, as well as on reference cards.

It is one of the markt advantages of the plan that these references, notes, etc., may be added from time to time as found convenient. It is necessary at first to find only the predominant tendency of the book in order to classify it. Subject references are added whenever found necessary.

Add these numbers indicating more closely the character of the book as rapidly as possible, and invite all specialists to call the librarian's attention to every desirable subject reference noticed in their reading. These numbers take little room, are easily added, and in most cases are very valuable.

6. If two subjects have distinct page limitations, class under the first, and make analytic reference under the second. But if the second is decidedly more important or much greater in bulk, class under that,

with reference under the first. Always put a book under the first subject, unless there is good reason for entering it under another.

7. Consider not only the scope and tendency of each book, but also the nature and specialties of each library.

Any subject of which a library makes a specialty naturally "attracts" allied subjects. This influence is strongest in minute classification. To admit this variation, many subjects in the present scheme have two or more places, according to these different sides; e. g. a book on "school hygiene," which a medical library puts under 613, has also a place in 371.7, where the educational specialist requires it.

8. If a book treats of a majority of the sections of any division, give it the division number, instead of the most important section number with subject references. Unless some one section is so prominently treated as to warrant placing the book in it, class a book on four or more sections under the division number; e. g. class a volume on light, heat, and sound, under the head most fully discust, and refer to it from the others; but if it treats also of mechanics, hydrostatics, and pneumatics, class as 530, or general physics, tho no mention be made of electricity, magnetism, or molecular physics.

9. To secure uniformity, make for future reference full notes of all difficulties and decisions; for it is of more importance to put books on the same subject together than to put them in the absolutely correct place.

These notes should be written either on the broad margins of the classification tables, or on an interleavd copy, or on P slips arranged by class numbers, like the clast catalog.

10. Keep collected works, libraries, etc., together, and assign like individual books to the most specific head that will contain them; or assign to the most prominent of the various subjects on which they treat, with subject references from the others; or separate and class the parts as independent works.

This last practice constantly grows in favor, and many librarians now largely disregard uniform bindings and "series" lettering, and, unless contents of volumes are so connected that they cannot be separated, class each under the most specific head that will contain it.

11. Class translations, reviews, keys, analyses, answers, and other books about specific books with the original book, as being there most useful.

Number of figures used in class number.— Decide this according to circumstances in each library. Small libraries often use the minute subsections beyond three figures only in certain divisions like Travel, 913–919 (where a closer geografical division is needed) and where a fourth figure is necessary in 400 and 800 to separate different languages.

In very small collections two figures might do till growth required further division; but it is economy, and saves handling the books a

second time to use at least three figures at first, even in the smallest collection. In larger or rapidly growing libraries all subdivisions may be used for the same reason, tho the number of books may not at the time seem to justify it. Whether there are one or 1,000 books on any topic, they take no more space on the shelves if clast minutely, and the work is done once for all. When large accessions come, even if a century later, this number will not have to be alterd. A library having but 20 books on Education might think it unwise to use the full scheme, but the whole 20 would go on a single shelf, and take no more room, and the Index would refer more accurately to what was wanted. The number of books you have on any subject has in this system no special weight. In a relativ location, any number of consecutiv topics without a book waste no space on shelvs or in catalogs. The numbers are merely skipt. This plan not only does no harm, but has the considerable negativ value that looking for the number and finding it blank or skipt, shows that you have nothing on the subject, —a piece of information second in value only to finding something, for one need no longer search.

The practical objection to close classing is that it gives a longer number to charge in a lending library. In a reference library full subsections should be used. Where a short number is imperativ, it is well to give the full class number on another part of the book plate, not to be used in charging, but as a guide to the contents of the book. Thus when the classifier has once examind a book, and found out just what it is about, the record is preservd for the benefit of others.

BUILDING NUMBERS

Geografical divisions.—In dividing by countries according to the note "Divided like 930–99," found so often in the tables, add only the number following initial 9, for this 9 means not locality but simply class 9, History; e. g. 942, history of England, analyzd is 9, history, 42, England (4 Europe, 2 England). If geology of England is wanted, add to 55 (the number for geology) 42 (the number for England), and you have 554.2. History of N. Y. state is 974.7, of which 747 is the locality number, and the number for N. Y. state administration, 353.9747, is built up by adding to 353.9 (the number for State administration) 747 (the number for N. Y. state).

Language and literature.—In 890, where the direction is to "divide like 490," note that 890, Minor literatures, and 490, Minor languages, correspond exactly, so that only the figures following 49 are to be added to 89 to build a minor literature number; e. g. Polish language is 491.85; adding 185 to 89, Minor literatures, gives 891.85 Polish literature. In brief, to form literature from philology numbers substitute 8

in place of the first figure 4; e. g. Sanskrit language 491.2, Sanskrit literature 891.2.

If the direction is to "divide like the main classification," as in 016, the number for the required subject is added exactly as it stands in the tables; e. g. bibliografy of Polish poetry, 016.891851.

Combining numbers in a way not printed in the tables must be done with great care or confusion results. Many users, fascinated with the possibilities of the system, make combinations more ingenious than useful; e. g. "the horse's foot and how to shoe it" was recently markt 636.1682, i. e. the blacksmithing number, 682, being added to the horse number, 636.1, making a very long, useless number. Horse-shoeing is now added to the tables as 682.1. Often it seems well to the classifier to add a figure to show some distinction. It is short and desirable, but later he may find he has shut himself off from using some other division which he would greatly prefer. Every added figure must be clearly written in the tables and index, for no man's memory can be trusted. See 9, p. 28; and Cautions, p. 31.

BOOK NUMBERS

Author numbers.—The invention of translation systems by which a name is represented by its initial with the rest translated into numbers, — e. g. Freeman, F 87,— has led most libraries to arrange books under each class number alfabetically by authors, or in local history by towns, or in biografy by biografees. This keeps all works by the same author together, and in large classes enables one to find any book readily without consulting catalogs. One great advantage is that the same author has the same book number in every subject; i. e. the figures are significant like our class numbers, and translate themselves into the name. Great practical mnemonic convenience results from this peculiar form of book number. By far the most widely used of these translation systems is that of the Boston Athenæum, devised by the librarian, C: A. Cutter, and known as the Cutter numbers.

Time numbers.— A second arrangement of books under class numbers is chronological by dates of first publication. Its advantage is in presenting the historical development of the subject, the book written earliest being on the left, the latest work on the right, and then of any given book it is evident that all those on the left were written before it, all those on the right after it. In science this has special value, while in literature the author arrangement is better. A translation system of dates devised by W. S. Biscoe, makes the numbering of the year more compact and satisfactory than to write the date in full.[1]

[1] For full explanations and table of Biscoe numbers see p. 934–935

Accession order.— A third arrangement — simpler but otherwise less desirable — is in order of accession; the first book in a class being 1, the second 2, the third 3.

It is entirely practicable to use two or even all three of these methods at the same time in the same library, one peculiarity of the system being the ease with which it may be adapted to almost any special circumstances. In fact, we use the chronological system in science where its advantages are most markt; the alfabetical system in literature where authors' names outrank dates; the old accession-order plan in special collections, which must be kept separate, and are no longer added to, since here the extreme simplicity of the 1, 2, 3 order is secured without any sacrifice. It is still better, if this last method is used, to number A, B, C, instead of 1, 2, 3, as 26 instead of nine books may be markt with one character, and chiefly, as it is highly desirable that each book number should begin with a letter which cannot be mistaken for the end of a class number, if the two are written on one line; e. g. the first book under 513, if numberd 1, might be so written as to confuse with subsection 513.1, but 513A could not be misinterpreted. If figures are used, care must be taken to write them as a fraction or with a mark of separation; e. g. $\frac{513}{1}$ or 513–1.

VARIATIONS PRACTICABLE IN ADJUSTING TO SPECIAL LOCAL REQUIREMENTS

Some users assume that adoption of the Decimal Classification and Relativ Index carries with it other parts of the system which the author has used at Amherst, Wellesley, or Columbia colleges or in the New York State Library. In fact, the plan in each of these libraries differs somewhat from all the others, and many of the 200 public and private libraries now using the plan have adopted still other variations; for the special constituency, circumstances, and resources of each library must be considerd in deciding what is best for it. This decision should be made by one familiar, not only with the library and its needs, but also with all methods of any merit and the comparativ ease and cost of introducing them into any given library.

Cautions.— Having decided to adopt the system in its decimal form as workt out and printed, it must be determind whether to adopt certain variations, noted in 1–5 below as practicable, and in some cases useful and desirable. The inexperienced user is very likely to feel entirely competent, after once reading the tables (in fact, without reading more than a single page regardless of its bearings on hundreds of other places, and without so much as looking at the author's explanations), to institute a series of "improvements." Experience proves that nothing could be more disastrous. It seems a simple

matter to put a topic a line higher or lower, but in some cases this may affect over 100 different entries in the Index, and there is no possible way to be sure of correcting them except by examining each one of the 20,000 heads. Frequently proposed changes, carefully studied out and submitted as improvements, are shown by our old records to have been adopted and used in the exact form proposed till considerations which had not been foreseen forced us to change to the form as printed. Even after years of experience one is not safe in pronouncing on an apparent improvement without consulting the voluminous records of previous experiments.

Those who have used the system longest have been misled into adopting changes which on trial they were compeld to reject, going back to the original form at the cost and confusion of two changes. In so apparently simple a thing as introducing subdivisions on blank numbers, mistakes have often been made ; and after it was too late to correct them the makers have regretted their neglect to consult the author and secure the advice and coöperation of those most familiar with the manifold inter-relations. Even were the independent divisions equally good, their numbers do not agree with those which will be put in the printed tables and index, so that every copy of the printed scheme will have to be corrected in ms. before it is usable in that library. The only safe rule is to make no changes or subdivisions without submitting them to the author, who will gladly advise on such matters without charge, not on the ground of any superior wisdom, nor even because of larger experience in this special work, but because in this way only can it be learnd if numbers have been already assignd with different meanings.

The user who adopts the printed form avoids the criticism sure to be aimd at any possible scheme. The moment he makes one "improvement" he must defend all the heads or alter them to suit each critic. Much time is saved by saying that the scheme is used as printed, and blunders are the author's, not the user's. A list of changes that have been made by others without such consultation was written for this note, but is omitted lest it should seem invidious. They illustrate how easy it is for able men to make what no one questions after explanation to have been outright blunders, in improving and adding to the printed scheme. The author is always grateful for suggestions from any one, and, having already given so much time in the effort to improve this system for the common good of all users, he invites the cooperation of those interested in completing needed subdivisions and eliminating any errors that may remain either in tables or index.

The following brief notes show the most important variations found practicable in the " relativ index system," oftener called the " Dewey system." For its essentials see p. 87–9.

1. **Letter notations for changes.**— To protect other users from confusion, the publishers insist, as the copyright entitles them to, that our numbers shall not be printed with changed meanings without some clear indication of the fact in the number itself. If the reasons that led us to adopt the form printed are not conclusiv to another, we wish to remove any obstacles to his use of the system with such changes as shall satisfy him. This can be readily done by using a letter, or some other character than the 10 digits, to mark changes; e. g., if you wish a different set of subdivisions under any number, make it out to suit, and number it a, b, c, etc. It will arrange in its exact place and exact order without difficulty, and no other user of the system will be confused by the numbers. In the index, cancel the 1, 2, 3, etc., you have discarded, and write in the a, b, c, etc., adopted. **Whenever you use our exact numbers, use also our meanings for them as indext.** When you add any features of your own, add new numbers of your own that cannot be mistaken for ours, using, of course, as many of our figures as are not changed; e. g., if you want a new heading next to 551.34, Icebergs, it cannot properly go as decimal 1. Mark it 551.34a, and it arranges as wisht. If you wish to change a head from one place to another, cancel it where it stands, and *leave that number blank* in the tables. Then insert the head in its new place as above, as if it had never been in the tables.

This plan of introducing letters or other symbols wherever each user pleases, will give all needed freedom to the personal equation and desire for originality, and meets all real wants for peculiar classification in peculiar cases.

Fiction and juvenils.— In some cases it is usually best to modify class numbers by letters as above. In popular libraries half of the circulation is often in fiction. A great saving is effected here by omitting the class number entirely and using merely the book number, it being understood that *no* class number means fiction. After fiction, their great circulation makes juvenils a good place to economize, if they are kept separate, as is usually thought desirable in popular libraries. The books are clast exactly as if for adults, then a J is prefixt to show their special character. This gives J alone as the class number for juvenil fiction, and e. g., J942, for a child's history of England. These are arranged in a parallel library by themselves, so that J942 comes between J941, juvenil history of Scotland, and J943, juvenil history of Germany.

If at any time it seems desirable to abandon the separate J library, it can be done, without altering a number, by distributing the J books among the regular classes, either ignoring the J entirely, or preferably by putting all the J books by themselves at the end of each class number.

There are thus three methods: 1, to have a separate J library; 2, to have the J books by themselves at the end of each class number; 3,

to have the J books in alfabetical order among other books on the same subject. In this last case the J is useful only to call attention plainly to their juvenil character.

The same marking is used for all these plans, and one can be changed into the other by simply distributing the books the other way, and telling the attendants that it has been done. Juvenil books go with adult books of the same class, unless a special J library is made, containing all juvenils.

Biografy.— A similar plan is recommended for this large class, as to the best treatment of which there is great difference of opinion.

Beside the plan printed in the tables, two others are recommended, viz.; to put all biografies in one alfabet of names of *persons written about*, marking all the books simply B for class number, and indicating the subject or biografee by a Cutter book number; e. g. life of Grant, B G76. This is most compact for charging, and is preferd in popular libraries of large circulation.

The third plan is to distribute biografy as far as possible to the subjects it illustrates, leaving, of course, under 920 lives not bearing specially on any subject; e. g. all lives of musicians go under 780 and its subdivisions, the life of Wagner being 782.2 instead of 927.82 as in the tables. Even in this arrangement it is better to indicate that it is biografy, putting B in place of the biografy figures 92; i. e. mark Wagner's life B782.2 (927.822). Then it arranges either with 782.2 or with biografy, as preferd, thus giving exactly the arrangement of the printed classification without changing a figure.

Travel.— By using T instead of B, the same principle gives a brief call number for the largely circulated class, description and travel.

Parallel libraries.— This treatment of fiction, juvenils, and biografy illustrates the principle. Its other chief application is for language collections. Some libraries have a constituency not reading English, and so need a parallel library in German, or Swedish, or French, etc. This is most easily made by simply prefixing an initial to the class number. If to be arranged, as with us, in one series of subjects, this may be ignored, or all German books on each subject may be groupt under G at the end of each class number. The German parallel library is made by simply putting all G's together and arranging by class numbers. The initials used are G, German, F, French, I, Italian, Sp, Spanish, Sw, Swedish, Dn, Danish, Du, Dutch, N, Norwegian, R, Russian, W, Welsh, A, Arabic, etc. Where only one language is so markt in a given library, only one letter should be used, so as to avoid an extra letter in charging; e. g. S will answer either for Spanish or Swedish if used in only one sense. This plan has proved very satisfactory in actual use.

Combining language and literature.— The same principle can be applied also in combining each language with its literature, if it is

preferred to abolish the class, Philology, and make it simply an appendix to Literature; and the reverse would hold true if a philologist wisht to abolish Literature and make it an appendix to Philology; e. g. using 82p for English philology, and adding philology subdivisions, English dictionaries would become 82p3, English grammars 82p5, etc., and arrange either just before (or just after) English literature, 820, 821, etc. For a better plan see Broken order, p. 36[7]–37[4].

Reference library.— To separate books most needed, the best plan is to mark R before class numbers, and arrange the books together, as an R library. When the books are to go into the general collection again, a line can be drawn thru this letter. In the same way it often happens that a general private library is given on condition that it be kept together; e. g. the Phœnix library of Columbia College. This has P prefixt to the class number, and thus is a parallel library by itself. An initial is better in such cases than a * or similar mark, since the initial helps the memory and is just as brief. The same plan applies of course if the library has an "inferno" for books not used without permits, or more distant rooms where books worth keeping but seldom called for can be arranged in a parallel storage library.

Still another provision is made in 080, 8 being the regular number for general collections (as in 508, 520.8, etc.), for these special libraries which cannot be separated because of binding or conditions of gift. But instead of the three figures in 080, a single letter, as described above, indicates the special collection, and it is easy to learn the location of the few special collections of any one library. Omission of initial 0 in the class "General works" was formerly recommended; e. g. 51 instead of 051 for an American periodical. But this usage is no longer advised, for the eye gets so in the habit of reading as *Science* any number beginning with 5, that there is a little mental hitch if, e. g., general periodicals are written 51, etc., instead of 051, etc.

Another reason is that the one and two figure numbers 1–99 are thus left available, and can be assignd to special use without confusion with tables or Index, for initial 0 is there printed for all numbers before 100. Yet in classification it sometimes happens that the first two figures are obvious at a glance, but time must be taken to determin the third. It is convenient to write these first figures, but if a mathematical book receives its first two figures (51), this unfinisht number is liable to be confused with the two-figure number 51. This danger may be largely avoided by writing the decimal point after a blank; e. g. 51 ., to show that a figure is omitted.

2. **Contractions for specialists.**— The system is often used by specialists for very minute work when the decimals are run out to six or eight places. While the theory is better to write all these figures, thus showing the relation to the universe of knowledge, there is no

practical gain to justify the labor if a great quantity of slips must be numberd. A specialist working on "Swedish poetry of the age of Gustavus" can use a single letter instead of the full 839.715 and save five characters in numbering each note; or a dash may be written for all but the last figure, thus "—5". A body of such notes can be inserted together in their place in an index at 839.715, with a colord card to mark the special groups, with little danger of confusion. Still many prefer the theoretical completeness of writing a full index number for every separate slip.

3. **Use of alfabet or chronology for final subdivisions.**— While our plan is decimal as distinguisht from the "dictionary system," we never hesitate to use the alfabet wherever that is more useful. Indeed, the main feature of our plan is its alfabetical index. Frequently in minute divisions it is economy to arrange alfabetically or by dates without using a translation system. This is specially true in index rerums and notes of specialists. After numbers have been used as far as that is the most useful form, then either the name chosen for the head or the year can be inserted at the end; e. g. towns in a given state, individual birds or insects coming under one number, names of men written about in biografy, etc. Some may prefer to adopt this plan in places where we have chosen a grouping; e. g. in chemistry, to put all the metals in one alfabet under 546.3, instead of using the numbers 546.3–.99. If this change is wisht, a more complete one will probably be better; viz. to put all the elements, non-metallic and metallic, in one alfabet under 546. Such use of the alfabet causes no confusion with the index, as it is simply subdividing more closely, unless, as in the last case (546.3), the alfabet replaces heads already printed. In this case, cancel all subsections in the tables by drawing a line obliquely thru the heads discarded, and mark in the margin "arranged alfabetically by elements," e. g.: —

546.3	**Metals.**	**Arrange metals alfabetically.**
~~·31~~	Alkali group.	
·32	Potassium.	
·33	Sodium.	
·33	Lithium.	
·34	Rubidium.	
·35	Caesium.	

Then find each of these heads in the index and cancel all figures after 546.3, e. g.: —

Potassium, inorganic chemistry, 546.32
Rubidium, " " 546.35

This plan has special value in this place, as new elements are discoverd from time to time, and can readily be inserted in alfabetic place. Still many chemists think it valuable to have similar metals groupt together for convenience of study, and to cover books written on the group as a whole, and also think it important to have a number

for rejected elements, because the literature and references about them remain, and must be provided for. The insertion of new elements is provided for, as explained on p. 14[4].

4. **Broken order.**— Another common and often desirable variation for shelf arrangement is to break the sequence of the numbers, in order to get books most used nearest the delivery desk. The theory is to keep the whole 1000 numbers in strict sequence; but a higher rule to be obeyed everywhere is to sacrifice any theory for a substantial gain. Practically it will seldom happen that it is not best to break the order of the classes. Often divisions are best arranged out of numerical place; e. g. 520 Astronomy may be wanted in a room accessible at night; fiction, juvenils, and biografy are always wanted near the delivery desk in a public library, and in strict order are as likely to come at the most distant point. Numberless local reasons may make a broken order desirable. There need be no hesitation in adopting it if enough is gaind, but there should be charts clearly showing where each division starts; e. g. after 430 "Preceding 830;" after 520 "In observatory," it being necessary to specify room for books entirely removed from the general library arrangement. The page of 100 divisions is reprinted by the publishers, on cards with wide margins, for just this use. Opposit each division is markt its beginning on the shelves, and it is easy to vary the order as much as necessary, tho of course the nearer the divisions run in regular order 1 to 99, the easier it is for a stranger to find his way about. Variations in the order of the sections are less wise and seldom necessary. If made, a wood or card-board dummy in the regular place should have markt on its side the present location of the section removed.

This broken-order plan is best for bringing together the philology and literature of each language without altering numbers or prefixing any letter. Let 420 be shelvd just ahead of 820, 430 ahead of 830, and so for all languages, making the general note that all 400's are shelvd just ahead of the corresponding 800's, and remembering that after the main languages four or more figures are required to indicate language alone, so that Portuguese philology goes between 868 and 869, Russian between 891.69 and 891.7, and Welsh between 891.65 and 891.66.

5. **Pro and con division of topics.**— It is very useful in many cases to separate the books on a topic with strongly markt sides, so that either set of views and arguments may be seen by itself. This has been done by subdivision in some cases,—e. g. 337, Protection and Free trade. In others it is equally useful, and can be indicated by an added mark,—e. g. 324.3, Woman suffrage. The number may be used for general works, giving facts, etc., and advocates and opponents may be separated by + and — for positiv and negativ, or by p and c, the initials for pro and con, which tho short, are too long for a circulat-

ing library to charge. In reference libraries, on cards, etc., most will prefer to write out *pro* and *con*, to distinguish the two groups. The order on the shelves is, of course, alfabetical, viz. 324.3, 324.3c, 324.3p; or if + and — ar used, the usual order is followed: +, —.

These five notes suggest the range of variations that may be made in the Decimal Classification and illustrate its adaptability to widely different conditions. For book numbers which decide the order of material after it is groupt into its final classes, see page 30.

OTHER USES

Tho the system was devised for library catalog and shelf arrangement, 17 years have developt many new applications. Nearly every administrativ department feels directly the great economy, and in every field of literary activity this classification has been found a labor-saving tool, whose practical usefulness has exceeded the most sanguin hopes of its early friends.

Bookstores.—The plan is a great convenience to both dealers and customers, when applied to the miscellaneous stock of a bookstore. Very often a much wanted book, specially if not recently publisht, is reported "not in stock," when such an arrangement by subjects would have reveald its place at once. Specialists often find on the shelves books that they would never have orderd, but are glad to buy after examination. Experience proves it a profitable thing for a dealer to arrange his books so that each person may find those in which he is interested without examining the entire stock.

Scrap-books.—The plan has proved of great service in preserving newspaper clippings. Scrap-sheets of uniform size are used, with the class number of the subject written in the upper corner of the front edge of the page, and clippings are mounted on the sheet as in a common scrap-book. When one sheet is full, another is inserted at the exact place. Thus perfect classification is kept up without blank sheets, and at the smallest outlay of money and trouble. This "L. B. Scrap Book" is for most persons the best form. These sheets are then arranged numerically like the subject card catalog, the sheets of each class being farther arranged, when desirable, under alfabetic subheads. Scraps thus mounted are shelvd either in manila pamflet cases or in patent binders.

Index rerums.—These are best made on the standard P size (7.5 x 12.5 cm.), card or slip. Long study and experience prove that the stock "L200" is best for private indexes, etc. It costs only half as much as the "Br. 400," which is largely used for public library catalogs, takes only half the room, and gives great satisfaction. The class number is written in the upper left-hand corner, any alfabetic subject head follows at the right, and notes fill the card below. The cards are then filed in order of class numbers like the subject card catalog.

the cards of each class being further arranged, as in case of the scrap sheets, according to any alfabetical subheads. Scores of devices for convenient handling and storage of these slips and of scrap sheets and pamflets are already manufactured. Details cannot be given here, but may be found in the full descriptiv and illustrated catalog of the Library Bureau, 43 Federal street, Boston.

Another admirable form is similar to the L. B. Scrap Book or shelf list; in fact, is simply a shelf list without the printed headings and down lines. The subject number goes in the upper corner, and all notes on that subject are written on the sheet below. This book fits an ordinary shelf, has the advantage of a full letter page in sight at once, and holds over five times as much as the P card. Of course the system can be applied to slips or sheets of any size, but there are literally hundreds of accessories and conveniences exactly adapted to these two sizes, which are used tenfold more than all others combined; so it is folly for one to begin on another size, and lose the advantages of this uniformity. If intermediate sizes must be had, the ones most used and least objectionable are Billet 10x15 cm., Note 12½ x 20 cm., and Ms. 15 x 25 cm. There are repeated cases where users of some other size have finally found it profitable to change to either the P, 7½ x 12½, or to the L, 20 x 25 cm., even at the cost of re-writing many notes.

Note books are best in this last described form. The much poorer method is to take a bound blank book, and assign the class numbers in order, giving about the space it is thought each will require, and, when the pages so assignd are full, note at the bottom where the rest of the material may be found.

This has all the objections of the old fixt location as compared to the relativ, and will hardly be adopted by any person who has ever seen the simplicity and economy of the shelf-list system.

Topical indexes.— The class numbers are used in indexing books read, usually by making the entries in the Index Rerum under proper numbers. The number takes the place of a series of words, and the results can be handled, arranged, and found much quicker because of the simple numerals.

The advantages that the system possesses for making topical indexes of collected works, periodicals, transactions, etc., will be evident to every librarian. These consolidated indexes may be arranged together with the card catalog of the books, or by themselves, as seems best in each case.

It would exceed the limits of this brief description to notice all the varied applications of the system. Enough have been mentiond to show its wide adaptability to the wants of the librarian and the student.

Tho much elaborated and in some points alterd, the essential character of the plan has remaind unchanged from the first. Doubtless

other improvements are still possible, and users of the scheme are invited to suggest any needed new heads, and to note any omission to be supplied in the Subject Index.

In this brief account the author has probably faild to meet some objections which may be raisd, and which he could easily answer. He therefore asks the privilege of replying personally to any such objections, where they arise, believing that it will be possible to answer, if not all, at least a very large proportion.

The labor involvd in preparing the Classification and Index has been wholly beyond the appreciation of any who have never attempted a similar task. Much valuable aid has been renderd in many departments by specialists, over 100 of whom have assisted in developing the scheme. Among these are many well-known scholars, and to all a most cordial acknowledgment is made. Without such assistance, the present edition could not have been made, for many minds were necessary to supply the technical and special learning absolutely necessary in filling the minute heads. Indeed, in many subjects the author's share in the work has been limited to the modification necessary for technical adjustment to his scheme of the material prepared by specialists. To many prominent librarians the author is indebted for valuable suggestions and appreciativ criticism. While these friends are in no way responsible for any remaining imperfections, they should have credit for many improvements in the scheme made in these 17 years of revision, during the first three of which it was kept in manuscript, in order that its many details might be subjected to actual trial, and modified where improvement was found possible.

In all the work from its first publication to the present, the most extended and valued assistance has come from my college classmate, associate, and friend, Walter Stanley Biscoe, my first assistant in Amherst College Library, in the charge of which he succeeded me, resigning to accept again in 1883 the place next me in the Columbia College Library, and again resigning in 1889 to become Librarian in charge of Classification and Catalogs in the New York State Library. Of the rare unselfishness with which he has given time taken from rest and recreation to advancing work in which he shared my interest, this book is the best witness.

In his varied reading, correspondence, and conversation on the subject, the author has doubtless receivd suggestions and gaind ideas which it is now impossible for him specifically to acknowledge. The *Nuovo sistema di catalogo bibliografico generale* of Natale Battezzati, of Milan, adopted by the Italian publishers in 1871, tho he has copied nothing from it, more than any other single system stimulated the author's study of the problem. The plan of the St Louis Public School Library and that of the Apprentices' Library of New York, which in some respects resemble his own, were not seen till all the essential

features were decided on, tho not given to the public. In filling the nine classes of the scheme, the inverted Baconian arrangement of the St Louis Library has been followd. The author has no desire to claim original invention for any part of his system where another has been before him, and would most gladly make specific acknowledgment of every aid and suggestion were it in his power to do so.

With these general explanations and acknowledgments he submits the scheme, which has cost so much time and strength, with the hope that it may prove as useful to others as it has to himself. It is a little book, but it came not forth except by grievous labor.

MELVIL DEWEY

NEW YORK STATE LIBRARY
Dec. 25, 1890

The previous editions have been dated Amherst College Library, June 10, 1876; Columbia College Library, Aug. 10, 1885; and Columbia College Library, Aug. 30, 1888.

EDITION 7

The complete revision in progress involvs many new interrelations. As extensiv advance testing of new schemes is impracticable, it is expected that practical application will develop unnotist faults. Classifiers are therefore requested to use the new tables critically and report defects of any kind, with proposed remedies and any additional needed subdivisions. All such criticisms are a decided help and regarded as a favor.

Minuteness Minute as are many subdivisions, there are none that some have not askt for and almost none that others have not declared needless. Since the degree to which any scheme shall be applied is optional with each classifier and close analysis is useful to everyone in defining content or in clarifying differences between related subjects, even the most elaborate schemes are printed in full if no essential objection has been brought against them by the best qualified critics. Note type is used for topics clearly useful only to specialists or as showing scope. Many others probably belonging in the same category are in the regular type of their grade, if doutful.

Basis of revision After study of all other available systems the *Decimal classification* was adopted in 1895 by the newly organized Institut International de Bibliographie as best adapted to its projected universal subject bibliografy to cover ultimately all subjects in all languages thruout all periods of the world's history.

Determining factors were:

1 The *Decimal classification* was a classification of topics independent of the language or exact synonym by which they were exprest.
2 Its notation was in itself the only international language, since it consisted solely of arabic numerals.
3 Its decimal principle allowd indefinit intercalation.

Overdetaild as the classification alredy seemd to many librarians, lack of subdivision was the Institute's first difficulty and its promoters urged the author at once to enlarge the tables. State library duties at that time made concentration on the classification impossible, but cooperation and criticism were promist if the Institute would draft the required extensions. When its remarkably rapid work precluded even adequate criticism, it was authorized to publish its tables and assured that the American revision would vary from them as little as practicable.

Obviously bibliografic and general library use are so different that in some cases what is clearly best for the real needs of the scholarly specialist, where any symbols can be used on index cards, would be quite impracticable for a public library, which must have symbols that can be gilded on the back of books, redily used by the unskild public in writing call slips, and rapidly handled by low-priced runners and young clerks. Where differences occur between the Institute tables and the 7th edition of the *Decimal classification*, many have been agreed to by the Institute and will appear as here given in its future editions, others are the result of serious objections made to the Institute classification, but with the expectation that agreement will soon be reacht, as it is the purpose of both Institute and author to harmonize the few divergencies as rapidly as possible.

Changed numbers Changes are fewer than anticipated and will be given in detail in the 'List of corrections, changes and minor additions' soon to be maild to all recorded owners of earlier editions. In many cases the changes are only a broadening of terms to meet later developments. Numbers where any change thus far occurs are:

021.1
.6–7
339
371.46 *vacant*
.6–63
67–68
.91–97
372.1 *vacant*
.8
374.2–4
.7–9
375.01–04
378.1
.99
541.1 *vacant*
.3
543.8–9
620.1
621.34 *vacant*
.62–63
.88
.91
.94
.99 *vacant*
642
643
647

Separates There is growing use by specialists who wish very detaild tables of their subjects, but only so much else as will show the perspectiv of these subjects in the general scheme and provide for broad classification of other material on the same plan. As fast as demand will cover expenses, any subject that has been elaborated will be publisht separately with general explanation, directions for use, 3 figure tables for other subjects, and full index: e. g. normal school libraries specializing on education will want the elaborate new 370 scheme but may not need to carry classification of other subjects beyond 3 figures; electric engineers may have no use for 370, but will need all details of 621.3 with only 3 figures for other subjects.

Bibliografic modifications The Institut International de Bibliographie has devised and uses ingenious symbols, expressing almost any interrelations and greatly increasing numbering capacity. But unfortunately these new symbols are thought by many to be too complex for ordinary shelf or catalog use, tho 10 years use by the Institute with unskild clerks has proved that this objection is more a fear than the result of fair trial. They are given here broadly for personal notes of specialists and other close classifiers, to whom their vast practical advantages will strongly appeal, and as a key to the notation of the Institute's bibliografic cards. Elaborate details and explanations are in the *Classification décimale*, Brussels, 1905. Obviously these symbols allow subdivision of the same number in many different ways without confusion.

1 **Accretion sign** + This is the simplest of all the symbols and indicates exactly what it suggests, that the article so numberd treats of all the subject numbers connected by +; e. g. 637+614.32 a work concerning dairies and inspection of dairy products.

2 **Coupling sign** - This is used for coupling to a subject a series of subdivisions belonging to another number, but only where notes in the tables allow it, as confusion would otherwise result. As this is our sign for "to and including," use of it in the Institute sense requires substitution of "to" for it in our sense.

3 **Relation sign** : This is the most useful symbol of all, as it involvs no change of number except omission of final 0 by those preferring the shortest form. It indicates merely that the subjects so connected are considerd in relation to each other, thus affording means of expressing almost limitless interrelations: e. g. ethics in relation to fine arts is 17:7 (or in full 170:700). Vice versa, art in its ethical aspect is 7:17; the order of the numbers before and after the colon being dependent on emphasis or on subject with which they are to be arranged.

4 **Form sign** (0) Form or generalities are exprest by a parenthetic number beginning with 0. This is farther subdivided as follows:
(0:) Form symbol: e. g. 335 (0:843) means Socialism treated in the form of a French novel.

(00) Subdivisions peculiar to a subject; e. g. for history it means sources. It is farther subdivided and in some cases modified by a hyfend figure; e. g. 9(44)(001-3) means *Catalog* of *official* sources of French history, (001) meaning official sources and -3 meaning catalogs, indexes, lists, etc.

(01)-(09) are the same as our regular form numbers 01-09. Obviously we can not replace our long establisht simple form numbers by something so much more complex that it is impracticable for shelf use.

5 **Universality sign** ∞ The mathematical sign of infinity is used with any combination of symbols to mean 'Without limitation as to the idea exprest by that symbol.' With place symbol (see 6 below) it means 'including all places': e. g. 9 (00) History of all countries; 9(∞)" ∞" Universal history covering all periods (see 8 below).

6 **Place sign** (3)-(9) These replace our regular country subdivisions found in 930-999, but do not conflict, as the Institute merely leaves D C 930-999 vacant, and writes History of France 9 (44) insted of 944. Other auxiliary place numbers indicating general region, direction, geologic place, time, etc. are also provided in place curvs.

7 **Language sign** = This sign preceding language numbers as found in 400 Philology, indicates subdivision by language; e. g. 398.4=9162 means Fairy tales in Irish, 91.62 being the philology number for Irish language in 400.

8 **Time sign** " " Numbers denoting time subdivision are written in quotation marks. The Institute scheme gives an elaborate system of time subdivisions.

9 **General points of view sign** 00 Each of the following numbers for point of view has also a series of subdivisions:

001 Speculativ: idea, purpose, plan, etc.
002 Realization: execution, construction, etc.
003 Economic: industrial production, cost and sale prices, etc.
004 Servis and use: workings, administration
005 Equipment and apparatus
006 Bildings and establishments: details of organization and servis
007 Special personnel

10 **A to Z** alfabetic arrangement by name of person, place or thing is indicated according to circumstances by initial or whole name.

Sequence of these symbols in the class number may be varied by users to produce any special arrangement desired, but unless distinct notis of this is given, the sequence is arbitrary in the following order

(0) " " = : - A-Z

e. g. 91(44)(03)=2 Dictionary of French geografy in English.

Index The relativ index is greatly enlarged both by heds from new tables and by many new references to tables not yet revized, and is consolidated into a single alfabet. It aims as heretofore to include every synonym likely to be sought of subjects exprest or implied in the tables. Insted however of repeating all entries under each synonym as before, it repeats only when there are less than 3 entries; but to save space when more than 3, it gives them as a rule only once and refers from other spellings or synonyms to the one chosen; e. g. Scepticism *see* Skepticism, Refuse *see* Wastes.

Acknowledgments Our greatest indettedness is to the Institut International de Bibliographie for its great volume of valuable work, covering almost the whole range of subjects, which forms the basis of our revision, and also for its advice and criticism during the progress of our work. Among the many friends to whose critical examination and suggestions the makers and users of the *Decimal classification* owe many improvements, preeminent are: R P Bigelow, librarian of Massachusetts Institute of Technology; Dr C V R Bumstead of Newark; Prof. E P Cubberly (Stanford); Prof. Charles DeGarmo (Cornell); Dr John B Roxby of Philadelphia; Prof. E L Thorndike (Columbia); the West Point military academy librarian, Dr Edward S Holden, and faculty; Prof. A E Kennelly of Harvard; and Captain John Clark Wilson, U S navy.

We are indetted for much valuable constructiv work as well as criticism to C W Andrews of the Crerar library and his staff; Dr Herbert Haviland Field of the Concilium Bibliographicum; Sidney L Wood and Godfrey Dewey in engineering; New York State library, specially to Walter S Biscoe, whose criticism is most valued of all; Professors L P Breckenridge (Sheffield scientific school) and G A Goodenough (University of Illinois); and to A L Vōge now of Mechanics Mercantile library, San Francisco, for his untiring and resourceful aid on the technical subjects in this edition and on others not yet completed. The Library of Congress classifications and subject hedings freely placed at our disposal by Dr Herbert Putnam have been most useful in suggesting many additions to the index.

Except a year in charge of classification in the Osterhout library, Miss May Seymour has been with me for 24 years, since she entered the first Library school class in 1887. At the New York state library, classification was her department till she was promoted to director's assistant. For the past 22 years every item of work on the new editions has past thru her hands. Her responsibilities as managing editor of the *A L A catalog* of necessity precluded work on the Classification for several years. For this edition she has done all the editorial and much constructiv work, has secured expert cooperation, cald attention to faults or omissions and sought the best available compromizes where doctors disagreed. This supervision will continue, so that future editions will

benefit by the cumulativ experience of the same editor. To this vast labor she devotes rare scholarly industry and a loyalty for which no words of thanks can be adequate. She shares my faith in the immense usefulness of the completed work, is doing nearly all the hardest work and deservs the gratitude of all who profit by this invaluable laborsavor.

MELVIL DEWEY

Lake Placid Club N Y
10 April 1911

EDITION 8

Edition 7 was exhausted a year and a half sooner than expected, thus forcing an unexpectedly early issue of edition 8. This contains expansions of 320, 331, 369, 623.8, 624, 625, 629, 630, 971, 979.4, many new notes and index entries.

Many other additions alredy well advanced will be included in edition 9, on which activ work will be steadily continued.

MELVIL DEWEY

Lake Placid Club
10 April 1913

EDITION 9

Like edition 7, edition 8 was exhausted so much earlier than expected that edition 9 has become necessary too soon to complete the tables pland for it. It differs from the last chiefly in many new notes, index entries and correction of errors.

MELVIL DEWEY

1 October 1915

EDITION 10

The chief new features of this edition ar the elaborate tho stil incomplete agriculture classification, and the recast of 940 with the Great war on 940.3 and .4. The gain from having bases of 4 insted of 6 figures for this detaild classification seemd clearly to justify the cost of renumbering material alredy in 940. For the scheme as it stands we ar mainly indetted to the A L A advisory DC committee. It wil be farther enlarged to fit the growing body of war literature, but it is stil too early to make satisfactory subdivisions for campains and battles (940.42–.45). There ar also many smaller additions, besides modifications, notes, and over 3000 new Index entries.

Extended tables of 651 Office economy, and 658 Business methods, in pamflet 'proof under revision' wil be sent on request for test and criticism that wil giv us confidence enuf in their working value to incorporate them in the next edition.

MELVIL DEWEY

Lake Placid Club N Y
11 August 1919

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C D means *Classification décimale,* the enlarged French translation of D C.

I I B means Institut International de Bibliographie.

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FIRST SUMMARY

CLASSES

0 General works

1 Philosofy

2 Religion

3 Sociology

4 Philology

5 Natural science

6 Useful arts

7 Fine arts

8 Literature

9 History

DIVISIONS

000	**General works**	
010		Bibliografy
020		Library economy
030		General cyclopedias
040		General collections
050		General periodicals
060		General societies Museums
070		Journalism Newspapers
080		Special libraries Polygrafy
090		Book rarities
100	**Philosofy**	
110		Metaphysics
120		Special metaphysical topics
130		Mind and body
140		Philosofic systems
150		Mental faculties Psychology
160		Logic Dialectics
170		Ethics
180		Ancient philosofers
190		Modern philosofers
200	**Religion**	
210		Natural theology
220		Bible
230		Doctrinal Dogmatics Theology
240		Devotional Practical
250		Homiletic Pastoral Parochial
260		Church Institutions Work
270		Religious history
280		Christian churches and sects
290		Ethnic Nonchristian
300	**Sociology**	
310		Statistics
320		Political science
330		Political economy
340		Law
350		Administration
360		Associations and institutions
370		Education
380		Commerce Communication
390		Customs Costumes Folklore
400	**Philology**	
410		Comparativ
420		English
430		German
440		French
450		Italian
460		Spanish
470		Latin
480		Greek
490		Minor languages
500	**Natural science**	
510		Mathematics
520		Astronomy
530		Physics
540		Chemistry
550		Geology
560		Paleontology
570		Biology
580		Botany
590		Zoology
600	**Useful arts**	
610		Medicin
620		Engineering
630		Agriculture
640		Domestic economy
650		Communication Commerce
660		Chemic technology
670		Manufactures
680		Mechanic trades
690		Bilding
700	**Fine arts**	
710		Landscape gardening
720		Architecture
730		Sculpture
740		Drawing Decoration Design
750		Painting
760		Engraving
770		Photografy
780		Music
790		Amusements
800	**Literature**	
810		American
820		English
830		German
840		French
850		Italian
860		Spanish
870		Latin
880		Greek
890		Minor languages
900	**History**	
910		Geografy and travels
920		Biografy
930		Ancient history
940	Modern	Europe
950	Modern	Asia
960	Modern	Africa
970	Modern	North America
980	Modern	South America
990	Modern	Oceanica and polar regions

General works

Limited to *none* of the 9 classes

000
001
002
003
004
005
006
007
008
009

Left blank for local history or biografy, etc. where some special collection is making which is to be kept in a case by itself, out of its regular place in the classification. Individuals use these numbers for personal diaries, note books, memorabilia, etc.

010 Bibliografy
011 General bibliografies
012 Of individuals
013 " special classes of authors
014 " " forms, pseudonyms, etc.
015 " " countries
016 " " subjects
017 Clast catalogs
018 Author "
019 Dictionary catalogs

020 Library economy
021 Scope, usefulness and founding
022 Bildings
023 Government and servis
024 Regulations for readers
025 Administration Departments
026 Libraries on special subjects
027 General libraries Reports, etc.
028 **Reading and aids**
029 **Literary methods Laborsavers**

030 General cyclopedias
031 American
032 English
033 German
034 French
035 Italian
036 Spanish
037 Slavic
038 Scandinavian
039 Minor languages

040 General collected essays
041 American
042 English
043 German
044 French
045 Italian
046 Spanish
047 Slavic
048 Scandinavian
049 Minor languages

050 General periodicals
051 American
052 English
053 German
054 French
055 Italian
056 Spanish
057 Slavic
058 Scandinavian
059 Minor languages

060 General societies
061 American
062 English
063 German
064 French
065 Italian
066 Spanish
067 Slavic
068 Scandinavian
069 Minor languages

070 Newspapers Journalism
071 American
072 English
073 German
074 French
075 Italian
076 Spanish
077 Slavic
078 Scandinavian
079 Minor languages

080 Special libraries Polygrafy
081
082
083
084
085
086
087
088
089

Left blank to be used (if preferd to prefixing an initial) for general collections of books which by terms of gift or for other cause must be kept together. This must be kept distinct from 040 where the individual books are polygrafic, i. e. are bound pamflets, essays, addresses, scrap or note books, etc. too general in scope to go under any single class. Juvenils could be put here, but are better kept in a separate class, markt J

090 Book rarities
091 Manuscripts Autografs
092 Block books
093 Early printed Incunabula
094 Rare printing Privately printed
095 Rare binding
096 Rare illustrations or materials
097 Ownership Bookplates
098 Prohibited Lost Imaginary
099 Other rarities Curiosa

THIRD SUMMARY SECTIONS

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100 Philosofy
101 Utility
102 Compends
103 Dictionaries
104 Essays
105 Periodicals
106 Societies
107 Study and teaching
108 Polygrafy Maxims
109 History

110 Metaphysics
111 Ontology
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113 Cosmology
114 Space
115 Time
116 Motion
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119 Quantity Number

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122 Causation Cause and effect
123 Liberty and necessity
124 Teleology Final causes
125 Infinit and finite
126 Consciousness Personality
127 Unconsciousness Automata
128 The soul
129 Origin of the individual soul

130 Mind and body
131 Mental physiology and hygiene
132 Mental derangements
133 Occultism Witchcraft Magic
134 Mesmerism Clairvoyance
135 Sleep Dreams Somnambulism
136 Mental characteristics
137 Temperaments Personality
138 Physiognomy
139 Phrenology Mental photografs

140 Philosofic systems
141 Idealism Transcendentalism
142 Critical philosofy
143 Intuitionalism
144 Empiricism
145 Sensationalism
146 Materialism Positivism
147 Pantheism Monism
148 Eclecticism
149 Other philosofic systems

150 Mental faculties
151 Intellect
152 Sense perceptions
153 Understanding
154 Memory
155 Imagination
156 Reason Intuitiv faculty
157 Sensibility Emotions
158 Instincts Appetites
159 Will

160 Logic Dialectics
161 Inductiv
162 Deductiv
163 Assent
164 Symbolic Algebraic
165 Sources of error Fallacies
166 Syllogism Enthymeme
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including all the

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011 General bibliografies Universal catalogs

011 is by **Authors.** If by **Subjects** they go in 016

Properly a catalog is of a special collection and so tells where the works may be found. A bibliografy disregards actual location and tells what there is, but its contents can seldom be found in any one library

012–016 include both bibliografies and catalogs. 017–019 is limited to catalogs of general collections

012 Of individuals

Alfabeted by subjects of bibliografies (bibliografees), not by compilers; e. g. Chaucer, Dante, Ruskin, etc.

A bibliografy of an individual may include either works about or by the individual, or both

Authors on whom special collections are being made (e. g. in 800) attract their bibliografies to same number, leaving only a reference here. Other individual bibliografies class here, unless clearly limited to some subject; e. g. artists or musicians, bibliografy of Wagner 016.782

013 Of special classes of authors

Subdivided like the general classification, as indicated below. Lists of writings of such classes, if limited to a special subject, class with that subject; e.g. list of historical works by Jesuits 016.9. But in exceptional cases the bibliografy of a special class of authors may be put with that class; e.g. bibliografy of women's writings 396.58, tho 013.396 would be the better number in a general library

.0206 Writings of members of A L A

.064 " " " " French academy

.282 " " Roman catholics

.378744 " " Harvard graduates

.9 Writings of foren residents in a special country

Often extended to one or more generations of descendants. This provides for bibliografies in which nationalty, not subject, is the important idea

.91 Authors from special country

Divided like 930–999 by country of origin and farther subdivided with 0 like 930–999 by country of adoption; e.g. 013.91485 bibliografy of writings of Swedes outside Sweden, 013.91485044 writings of Swedes in France, 013.9148507 of Swedes in America. This groups under *mother* country; e.g. gathers together all lists of works by emigrant Swedes

.930–999 Foren authors in special country

Usually preferable to .91. Divided like 930–999 by country of adoption and farther subdivided with 0 like 930–999 for country of origin; e.g. 013.944 foren authors in France; 013.973 foren authors in U S, 013.9730485 Swedish authors in U S; 013.9485073 American authors in Sweden. Ordinarily 013.94807 would be explicit enough; the longer number is not advised. This groups under *adopted* country; e.g. gathers under a given country all its foren authors

014 Of special forms: anonyms, pseudonyms, etc.

.1 American .2 English .3 German, etc.

015 Of special countries

Books publisht in the country. Publishers lists, current publications. Subdivided by countries like 940–999; e. g. 015.42, Bibliografy of books publisht in England, as Lowndes or English catalog

The history of literature, i. e. belles lettres, poetry, drama, fiction, etc. goes, of course, with those topics in 800; but the literary history of any given place or period covering the writings on all subjects as well as in literature, is bibliografy, and goes usually in 015, tho the literary history of some special class is 013

016 Of special subjects

Subdivided like the main classification, from 000–999; e. g. 016.01 Bibliografy of bibliografies; 016.091, of manuscripts; 016.5, of science; 016.942, of English history, etc.

See also next note

Library and sale catalogs

Catalogs of any special subject, whether subject, author, or dictionary, go under its subject number, in 016, which is the ruling heding wherever it conflicts with another. 017–019 therefore includes only catalogs of general collections, limited to no one class or subject

Under 017-019, 4 means catalogs of books for sale, not publisht, by booksellers. For *publishers* catalogs see 015

017 Clast catalogs: systematic or logical

.1 Public .2 Private .3 Auction .4 Booksellers

Class here author and subject lists bound together, as they are much oftener used to see what has been written on some subject than whether a library has a certain book

For all forms of alfabetic subject catalogs, see 019. See 016 for Bibliografies

018 Author catalogs See 011 for Bibliografies

.1 Public .2 Private .3 Auction .4 Booksellers

A volume containing both author and subject catalogs is more useful in 017. For auction catalogs of private libraries use 018.2, not 018.3. 018 includes accession, chronologic, and any other forms (except subject and dictionary) of catalogs of collections

019 Dictionary catalogs, Alfabeticoclast, etc.

.1 Public .2 Private .3 Auction .4 Booksellers

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- 010 Bibliografy
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020.1 Theory

.14 Library terms, definitions, etc. Discussion. For dictionaries, glossaries, etc. see 020.3

.2 Compends .3 Dictionaries .4 Essays .5 Periodicals

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Sunday school " " " 027.8
Library dep't of N E A or class with subject in 021.3
.626 Mutual benefit associations
Or class in 023.59, if preferd
.627 A L A publishing board
For library leags see 021.3
.63 Congresses, conferences, meetings, temporary organizations
.65 Commercial establishments Library Bureau
For commercial circulars see 020.85
.7 **Education Training Library schools**
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Standards, location, cost, etc
.711 Library schools
Use letter for each school, and if desired divide like 378 A–Z
.712 Summer schools
.713 Apprentis classes Training classes
.714 Correspondence schools
.715 Library institutes
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.716 Courses in colleges and universities
.717 Courses in normal and high schools
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.719 Private schools and instruction
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.88 Curiosa, anecdotes, library humor, dummy book titles
.9 **History of library economy**
For history of libraries both public and private see 027
Lives of librarians are clast in 920.2. To keep them with the subject use 020.92, and for fotografs of librarians 020.921. Collected lives may be separated from individual by use of the Olin booknumbers (following Index)

021 Scope, usefulness and founding of libraries

Also scope and founding of combined libraries and museums. Support, development

.01 Arguments for libraries: purpose, benefits

Impressivness of libraries. Discussion of free public libraries is better clast here than in 027.4

.02 Arguments against libraries: evils of libraries

For paternalism in library see 021.201

.03 Progress and future of libraries

Reforms, improvements, projects, plans, prefesies, library ideals

.04 Ideals for special communities

e.g. what a library can do for a manufacturing community

.1 Library as a storehouse

.16 Character of material appropriate to library

.2 Library as an educator; people's university

Material on private reading is better in 028 than in 021.2

While the work of a library is nearly all educational in a broad sense, the relations of the library to special classes of the community, outside of direct educational work thru schools and home education work, ar best clast with libraries for special classes in 027.6, or when a special subject predominates, in 026

.201 Paternalism in library

See also 024.58 Library censorship of news, 024.64 Restriction of immoral books, 025.217 Exclusion of immoral or il made books

.25 Library as a publisher

.26 " bookseller

.28 Work for special classes of users

Physicians, lawyers, clergymen, women, foreners, etc. See also 021.3

.3 Library in relation to schools and the young

This is mainly for relations of general public libraries to school work. Class a library ownd by and kept at the school in 027.8. School libraries, 371.6, is only to keep all school material together under 370. Class general work for children with children's libraries in 027.6

.31 Relations to teachers

.32 " pupils

Librarian's talks to pupils, either at schoolhouses or at library, on use of library

.33 Special libraries for schools

Specially selected from general library and lent to school either for class or general school use. Duplicates for schools

.34

.37 Work of individual libraries with schools

Alfabeted by library; e.g. accounts of work with schools by Hartford public library under Hartford, by Osterhout library at Wilkesbarre under Osterhout

021.4 Home education

This includes all servises or added fields of work undertaken by the library outside the use of books. For programs, reports, etc. of home education agencies, see 374.1-.9

.41 Study clubs Reading circles, etc.

.42 Conferences, conventions, institutes, etc.

.43 Lectures

For extension courses, see 021.44

.44 Extension courses Lecture study

.45 Entertainments: dramatic, musical, etc.

.46 Museums and temporary exhibits

.47 Science museums or collections

.48 Art galleries " "

.5 Library as a recreation

Serving refreshments; e. g. tea

.6 Library extension and cooperation

For work done by the state see 021.8

.61 Deliveries

See also 025.6 and 022.16

.62 Branches

See also 022.15

.63 Centralization Grouping of libraries

.64 Cooperation between libraries

Cooperation in any special department is clast with the department; e.g interlibrary lending 025.6

.65 Traveling libraries

A collection (usually 25 to 100 volumes) either general or on one subject, lent to a community, library, study club or other organization. Book wagon

.66 House libraries

A small traveling library for use of a person or household. Originated at New York state library for isolated students

67 Home libraries

Small libraries for children, each library kept at home of some child for use of a group, under supervision of a visitor. The libraries travel from group to group. Originated by Boston Children's aid society

.7 Founding Developing and maintaining interest

This is mainly for starting a library, interesting people and bringing them to the library. For most special methods of interesting those who ar alredy readers see 025.5 and 025.6

.71 Personal canvass, visits and correspondence

.72 Circulars

.73 Advertizing

In newspapers, posters, street cars, etc.

.74 Press Publicity

Discussion of use of newspaper colums (editorials, articles, letters, new book lists, etc.) to secure interest

.75 Schools and teachers

.76 Churches and ministers Pulpit

.77 Literary and other organizations and institutions

.78 Lectures Public meetings and addresses

.79 Library propaganda

Societies, local or general, for encouragement and stimulation

021.8 **Libraries and the state** **Library legislation**

.81 State supervision

.82 Library departments or commissions

Special work done by commissions is class by its subject. Reports of commissions, if largely a summary of the *public* libraries of the state, go in 027.4 If important to keep all work of commissions together, class their reports here

.83 Government aid

.831 State grants of money

.832 Local subsidies

.84 Gifts of books

.841 Public documents, etc.

.842 Copyright books

.85 Exchanges

See 025.266 for systems of exchanges, management, routine in individual libraries. This number is for general exchanges by state or central authority

.851 Local

.852 Foren

Vattemare international exchanges, Smithsonian exchanges

.86 Privileges

.861 Remitted duties Free importation

.862 Free postage Franking privilege

.863 Lower rates or special facilities Cheap library post

.87

.88 State or local hindrances Politics

.89 Library legislation

General; laws for a special subject ar class with the subject; e.g. law for a library commission 021.82; law against injuring library books 024.8

.891 National legislation

.892 State "

.893 Local legislation (county, city or village)

.894-.899 Legislation in special countries or places

Divided like 940-999

.9 **Support, raising funds, etc.**

For state aid separate from local help see 021.8

.91 Taxes Appropriations Subsidies

.92 Endowment

.93 Gifts of money or books

See also 021.84 Government gifts

.94 Bequests

.95 Subscriptions

.96 Lectures Fairs Entertainments, etc.

For raising money. For educational purposes see 021.43-.45

.97 Membership fees

022 Library bildings

See also 727.8 Architecture For care of bilding see 025.9

.1 **Location, site, etc.**

.11 Location with reference to field of work

Accessibility to population servd, to other libraries, educational institutions, etc.

.12 Site

With reference to space, air, light, soil, slope of ground, etc.

.13 Provision for growth New bildings

.14

.15 Branches

.16 Delivery stations

.17 Newsrooms, reading rooms, etc.

.2 **Material, protection**

.21 Material: wood, brick, stone, steel, glass, etc.

Relativ fitness for library bildings. See also 620.11 Strength of materials; 691 Bilding materials

.22

.23

.24 Fireproof construction

.25 Protection against fires

Location and relativ efficiency of apparatus: hose, extinguishers, chemic engins, standpipes, etc. For watchman see 025.9. See also 614.84 Fire protection

.26 Library fires, burning of libraries

.27 Insurance

.28

.29 Other dangers

Flood, earthquake, cyclone, war, etc

.3 **Design Plans Construction**

Alfabet plans, elevations, exteriors, general descriptions, etc. by name of library. Use .31-.33 only for indexing

.31 By kind of library

Divided like 027. Group plans for public libraries, 022.314, in 3 subsections

022.3141 Libraries under 20,000, small; i.e. under this number list plans of such libraries, but shelv them in their alfabetic place under 022.3

.3142 Libraries from 20,000-100,000, medium

.3143 Libraries over 100,000, large

.32 By subject

Divided like 026; e.g. under 022.3234 list plans of law libraries so that they may be redily referd to in 022.3, or in journals or reports clast elsewhere

.33 By country

Divide like 930-999 and use like 022.31-.32 only for reference

.34 Design and decoration

Divided like 729 as follows:

.341 Elevation, style

Only for general discussion; class elevation of a special library under 022.3

.342 Plan

Number, distribution and dimensions of rooms; special forms, spiral, circular, etc. See note under 022.341

022.343 Artistic forms
.344 Painted decoration, etc.
.348 Staind glass
.349 Accessories and fixt furniture
Include paintings, statues, busts, etc. as decoration for bilding. Special library furniture, bookcases, loan desks, etc. ar 022.9
.35 Construction
Divided like 721. Class here only discussions limited to library bildings
.36
.37 Library rooms as part of other bilding
.38
.39 Remodeling old bilding
Either other bildings (churches, residences, etc.) for library purposes, or remodeling a library to meet modern conditions
.4 Storage and shelving
For furnishing of private libraries see 645.63
.41 Storage
Capacity per square meter of floor, or running meter of cases; allowance for growth
.42 Shelving round sides of room
.421 Wall cases
.422 Alcoves
.423 Galleries
.43 Stacks
.431 Stack rooms
Dimesions, maximum width with natural light only. Number of rooms, one or several. Number of floors
.432 Arrangement of cases
Parallel, radial; light; open access, supervision
.433 Movable cases
.434 Ailes
Position, width
.435 Flooring of stack rooms
Solid, glass, open grating
.438 Maximum floor load
.44 Cases, tiers
.441 Material: wood, metal, glass
.442 Dimensions of case and tier, hight, length
See also 022.452 Dimensions of shelf
.443 Plan of cases
Open or closed ends and backs; 1 or 2 ledges
.444 Fixt or movable shelvs
.445 Quarto and folio shelving
.45 Shelvs
.451 Material
Wood, metal, glass, stone, sheet iron, skeleton steel
.452 Dimensions: length, depth, thickness; standard shelf
.453 Surface finish or covering
Paint, varnish, cloth or lether covering
.454 Shelf supports: pins, brackets

022.46 Cases and shelvs for large books, lying flat
Dimensions, sliding or roller shelvs, etc.
.47 Closed cases Doors: glass, screen or wood
.48 Special cases
.481 Hanging presses
.482 New-book cases
.483
.484
.485 Cases for maps, engravings, etc.
.486 Cases for fotografs
.487 Cases for lantern slides
.5 Reading rooms
See also 022.63 Rooms for special material
.51 General reading room Central hall
.52 Small reading rooms Study rooms
Gallery study tables. For seminar and class rooms see 022.65
.53 Reference room
.54 Standard library
.56
.57 Women's room
.58 Children's room
.6 Administration and special rooms
.61 Rooms for trustees or outside organizations
.611 For trustees
.612 " committees, commission, school board
.613
.614 For local societies
.62 Administration rooms
Divided like 025
.63 Rooms for special material
Divided like 025.17; e.g. 022.6332 Newsrooms
.64 Special collections: patents, local history, etc.
.65 Instruction rooms, etc.
.651 Lecture room or hall, theater, concert
.653 Seminar room, class room
.655 Museum
.656 Art gallery
.657 Exhibition room
.658 Fotografic and dark room
.659 Piano and music room

022.66 Recreation rooms
.661 Conversation room
.662 Chess room
.663 Other games
.664 Billiards
.665 Bowling
.666 Gymnasium
.67
.68 Other rooms Lavatories, etc.
For helth, comfort or convenience
.681 Entrance halls and corridors
.682 Waiting room
.683 Telefone booth or room
.684 Lunch room
.685 Coat room
.686 Toilet room, lavatories, etc.
.687 Garage, bicycle room, etc.
.69 Residence quarters
.691 Librarian
.695 Janitor
.7 Lighting
.71 Natural lighting; windows
For architectural side see 022.358; for staind glass see 022.348
Position of windows; size and number; shape. Provision for opening: sliding, hinged or pivot sash, French casement
.72 Skylights
.73 Prisms
.74
.75 Artificial lights: materials
.751 Lamps, oil, etc.
.752 Gas
.753 Acetylene
.754 Electricity
.76 Fixtures
.762 Portable or semiportable lights
.763 Table lights
.764 Standards
.765 Bracket lamps
.766 Chandeliers
.77 Lighting of stacks by electricity
Fixt or movable lights
.8 Heating and ventilation
General hygiene of library. Divided like 697

022.9 Fixtures, furniture, fittings

.91 General furniture

.911 Chairs

.912 Tables

.913 Desks

.914 Revolving cases

.915 Bases

.916 Vertical files

See also 651 Offis equipment

.918 Counters

.92 Public conveniences

.921 Hatracks

.922 Umbrella stands

.923 Clocks

.924 Bulletin boards

.93 Furniture for exhibiting or using books, pictures, etc.

.931 Exhibition cases, fixt or movable

.932 Wing frames

.933 Easels

.934 Reference book holders

.935 Magazine and newspaper racks, files, etc.

.94 Appliances for getting or carrying books or messages

.941 Ladders, stepladders

.942 Book trucks

.943 Carrying trays

.944 Mechanical carriers

See also 621.867 Conveyers, Telferage

.945 Book lifts

.946 Pneumatic tubes

.947 Speaking tubes

.948 Interdepartment telefones

See also 621.3853 Intercommunicating telefones

.95 Elevators

For carrying persons, goods, etc. See also 621.877. Class here only discussion of them for library use. For book lifts see 022.945

.96 Floor coverings

For permanent flooring see 022.356

.961 Linoleum, corticine

.962 Matting

.963 Carpets

.964 Rugs

.965 Door mats: rubber, wire, etc.

.97

.98

.99 Desk fittings, etc.

Divided like 651

023 Government and servis Personnel

For government of special kinds of libraries see 026 and 027

.1 Constitution and bylaws for governing board

Charters. Local ordinances, etc.

.2 Appointment and tenure of offisers under governing board

State or local civil servis. Special library examinations. Promotions. Probationary appointments. Temporary or limited period appointments. Appointments by executiv offiser

.3 Governing board

Trustees, committees, directors, regents, etc.

.31 Method of selection

Election, appointment, exofficio trustees, close corporation, i.e. selfperpetuating body

.32 Number

.33 Qualifications

.34 Women as trustees

.35 Powers and duties

.36 Financial administration

.37

.38 Time and place of meetings

.4 Executiv Consulting librarian Library expert

For appointment see 023.2. See also 023.5–.9, which apply to executiv as well as to staf

.43 Responsibilities and privileges

.5 Staf

Including all subordinate positions. For method of appointment see 023.2

.51 Qualifications

.52 Personality Character Moral and social equipment

.53 Mental equipment Natural ability

.531 General education

.532 Professional education Training

See also 020.7 Library schools

.535 Reading of librarians

.54 Physical equipment Helth Exercise

.55 Staf meetings Relations to hed

.56 Women as librarians

Including difference in salaries of men and women

.57 Worries and trials

.58 Longevity

.59 Library benefit associations

See also 020.626

023.6 Daily hours Holidays and vacations
.61 Daily hours
.611 Records Record clock
.612 Punctuality Tardiness
.62 Hours for meals Lunch room
See also 022.6 Special rooms
.63 Special work
.631 Evening
.632 Sunday
.633 Holiday
.64 Work by hour Overtime, extra hours
.641 Making up lost time
.642 Payment for overtime
.643 Effect of overstrain on employees
.644 " " on servis
.65 Holidays
.651 Weekly half holiday
.652 Legal holidays
.66 Vacations
.661 Time of year
.662 Length
.663 Continuous or in instalments
.664 Sabbatic year
.67 Absences for sickness or other causes
See also 023.641 Making up lost time
.68 Attendance at meetings
.681 International
.682 National
.683 State
.684 Local
.7 Titles and duties
.701 Specialization Monotony Change of work
.702 Understudies
.71 Executiv Director
Chief or principal librarian, keeper, etc.
.72 Department, division or section heds
Librarians, sublibrarians, chiefs, heds
.73 Reference staf or faculty
Librarians of special subjects
.74 Assistants Catalogers

023.75 Pupil assistants, apprentises, volunteers
Paid mainly by instruction
.76 Clerical servis
.761 Stenografers
.762 Typewriters
.763 Clerks
.77 Mechanic servis
.771 Binders
.772 Electricians
.773 Carpenters
.774 Other mechanics
.78 Pages, messengers, ushers, runners
.79 Janitor servis
.791 Janitor
.792 Watchman
.793 Elevatormen
.794 Attendants, in coat room, etc.
.795 Porters and packers
.796 Cleaners, etc.
.8 Remuneration: salaries, pensions
Divided like 023.7. See 023.56 for difference between salaries of men and women
.9 Rules for staf Codes
Made by trustees or librarian
For punctuality see 023.612. For absences or sick leave see 023.67
.91 Conversation
.92 Personal calls or work
.93 Soliciting money, subscriptions, contributions
.94 Respect and care for library property
.95 Uniforms
.96 Curtesy Indifference
See also 174 Business ethics; 177.1 Curtesy (social ethics)

024 Rules for readers

For reference and circulating departments
.1 Readers qualifications
.11 Age
.12 Residence
.13 Relations to community
Membership in society, club or institution; official position; profession, etc.
.14 Responsibility
Reference, guarantor, money deposit
.15 Registration
.16 " for limited period

024.2 Fees Assessments Free use

.21 Membership fees

Mercantil libraries, atheneums

.22 Book fees

Circulating library fees. For fines see 024.6

.23 Fees for readers card, etc.

For petty expenses to gard against wastefulness

.24

.25 Extra library fees; e. g. college library

.26 Public library fee

For subscription departments see 024.7

.27

.28 Free use

.3 Hours of opening

.31 Number of hours

.32 Time of day: morning, afternoon

.33 Evening opening

.34 All night "

.35 Intermission for meals

Closing library during lunch, dinner or supper hours

.36 Hours for reference and circulating departments

.37 Cooperation of local libraries

Agreement on hours so that some library shal always be open

.4 Days of opening or closing

.41 Sunday

.42 Special religious days

.43 Holidays

.44 Vacation, summer

.45 Inventory Examination

Closing for annual examination of library

.46 Special occasions

Closing for recataloging or rearrangement; public calamity, deths

.47 Closing for epidemics

.5 Reference use

.51 Reading room rules

.52 Decorum in library

Unwelcome visitors; library cranks

.53 Ladies in reading room

For women's separate reading room see 022.57

.54 Access to catalogs

For access to librarian see 023.43

.55 Open reference shelvs

.56 Open shelvs in general

.57 Restricted or selected access to shelvs

Restriction as to persons or subjects

.58 Library censorship of news

Obliteration or suppression, in reading room copies, of newspaper reports tending to lower morals; e.g. betting and racing news, reports of crime, criminal trials. See also 021.201 Paternalism

024.6 Home use Loans

.61 Number of books

.611 Two book system

.612 Summer vacation cards

.62 Time: 7-day books, new periodicals

.63 Delinquencies Fines

For injuries, etc. see 024.8

.64 Renewals

Extension of loans by library

.65 Relending

Lending by borrowers

.66 Reservations

.67 Restricted books

.671 Reference

.672 Rare or costly

.673 Medical

.674 Of immoral tendency Library inferno

See also 021.201 Paternalism

.68 Interlibrary loans

.681 International loans

.7 Special privileges

.71 Extra books Teachers cards

.72 Extra time

.73 Remission of fines Excuses

.74 Favord classes: trustees, faculty, staf

.77 Lending restricted books

.78 Subscription department

Novels and popular new books lent for fee. Extra copies for rent in public (tax supported) libraries

.8 Injuries Abuses

.81 Defacements

Marks; corrections, notes and comments

.82 Mutilation

.83 Removal of plates, maps, etc.

.84 Mutilating newspapers

.85 Losses by readers; payment

.86 Thefts

.87 Restitutions

.88

.89 Prevention of abuse

Methods of preventing injury and inducing better care of books. For library leag see 027.6

.9 Other rules

025 Administration Departments

SUMMARY

Supervision	025.1	Executiv
Acquisition	.2	Accession
Utilization	.3	Catalog
	.4	Classification
	.5	Reference
	.6	Loan
Preservation	.7	Binding
	.8	Shelf
	.9	Care of bilding

025 is for the librarian's part. The trustees bild and furnish (022); make rules for government and servis (023), and regulations for readers (024); but the administration involvs questions of its own, which, however, ar closely allied to topics in 021–024 and elsewhere; e. g. the librarian must know his side of binding, and be able to giv proper directions and supervision, but need not know all the details of the binder's craft (686)

Administration includes .1 Supervision .2 Acquisition .3–.6 Utilization .7–.9 Preservation; i. e. the librarian's duty to books is to Get, Use, Keep

.1 Executiv General supervision

.11 Finances

See also 023.36 Financial administration of governing board

.111 Invested funds, endowments, gifts

See also 021.9 Support

.112 Appropriations: local or state

See also 021.8 Libraries and the state

.113 Other money receivd

Fees, assessments, fines, payments for special servises and investigations, etc.

.114 Accounts: receits and expenses, bookkeeping

.115 Salary payments Staf payrolls

See also 023.8 Salaries

.116 Expenses: fittings, supplies and incidentals

Class with a department supplies peculiar to it, their kind, quality, cost, etc; e.g. catalog cards with 025.3. For bookbuying see 025.2

.117

.118 Cost of preparing books for shelvs

.12 Printing and publications

Both preparation of material and details of printing, including size, style, type, etc.

.121 Blanks and forms, stationery

If relating to a special department class with it; e.g. bookplates in 025.2

.122 Publications

.123 Reports and statistics

See also 027

.124 Catalogs

See also 017–019. For cataloging see 025.3

.125 Bulletins

Frequency, advertisements, etc. See also 017–019. For preparation of book lists see 025.3; for newspaper publication of new book lists, see 021.74

.126 Library magazine or paper

.127

.128

.129 Duplicating by neostyle, carbon, etc.

For machines and processes see 652. Class here discussion of fitness for library applications only

025.15 Correspondence

.151 Stationery

Material, weight, size and headings

.152 Stenografers, dictation machines

.153 Typewriters

.154 Copiers

Roller, press, carbons, portable. See also 025.129

.156 Letter files

See 651 for methods

.17 Treatment of special material

For general discussions of arrangement, care and use. Class special work under each department: e.g. cataloging of incunabula in 025.3

.171 Manuscripts, archives and rarities

Divided like 090

.172 Pamflets

.173 Serials, documents, etc.

1 **Periodicals, magazines, etc.**

2 **Newspapers**

3 **Annual reports**

4 **Documents; national, state and local**

.174 Broadsides

.175 Clippings

.176 Maps and charts

.177 Art material

Engravings, fotografs, drawings, lantern slides

.178 Music: scores, rolls, etc.

.179 Museum material

.18 Administration of individual libraries

Alfabet by name of library. For administration of special kinds of libraries see 026 and 027

025.2 Accession Acquisition

SUMMARY

025.21 The library and its selection
.22 Methods of acquisition
.23 Ordering and receiving
.24 Accessioning
.25 Marks of ownership
.26 Duplicate and exchange department
.29 Special material

.21 The library and its selection

.211 What? Proper proportion of subjects

Division of funds; endowments for special subjects; accession statistics

.212 **Specialization by libraries**

Division of subjects among local libraries. See also 021.64 Cooperation. For collections on special subjects, economics, science, etc. see 026

.213

.214 Who? Selectors of books

Trustees or trustee committee; librarian; staf committee, book board; advisory committee from outside; experts; central body (bibliografic bureau, state commission, etc.)

.215 How? Methods of selection

Recommendations by readers; personal examination; visits to book stores; books sent on approval: printed reviews; first selection for new library. Want lists, books under consideration
For lists of best books, A L A catalog, annual lists, etc. see 016
For principles of selection and choice of editions see 028.2
For selection for special classes see 027.6, 027.8, 028.5

.216 Buying fiction

Duplicating popular fiction; extra copies of best fiction

.217 Rejection, exclusion, censorship

Pernicious literature; badly made books; yellow journals See also 021.201 Paternalism

.218 Weeding out, sifting

Separating books no longer of servis to library For withdrawal book see 025.249

.22 Methods of acquisition

.221 Buying new books

Local bookstore; book center, general agent; publishers; subscription agent; bids on special lists; foren books thru home or American agent, thru foren agent. See also special material 025.29

.222 Prices Discounts

Net books. For free importation, see 021.861

.223 Buying old books

Secondhand catalogs; remainders, trade sales; dealers in old books, bookstalls; value of old books

.224 Auctions

For auction catalogs see 017–019

.225 Buying libraries in block

.226 Exchange

.227 Gifts

Request blanks and records; gift lists; acknowledgments; privately printed books; propagandist books
For government documents and copyright books see 021.84
See 025.268 for gifts from library to library

025.23 Ordering and receiving
For gifts, see 025.227; for exchanges, see 025.266
.231 Ordering
Order slips or lists; order books or sheets; copies of orders; order index, order numbers
.232 Examination for duplicates and verification
Misspeld names; changed titles; separates
.233 Reception and opening
Express, mail, etc; frequency of shipments; free delivery
.234 Checking bills
Prices and amounts
.235 Collation
.236 Receit index
.24 Accession book
.241 Importance of record
Accession book vs shelflist, etc.
.242 Printed headings Items Fulness of entries
.243 Accession number: volume, work or invoice
.244 Accession stamp
.249 Withdrawal book
.25 Ownership marks
.251 Private marks
.252 Stamping
Ink, embossing, or perforating stamp. Table and foot power
.253 Book plates Plating
See also 097
.254 Library name on outside of book
Gilding or impressing name of library on back or covers
.255 Card pockets
.26 Duplicate and exchange departments
.261 Duplicates
Definition, rules and decisions, marking, stamp, plate, etc.
.262 Duplicates of institution's own publications
Either of library or larger organization including it; e.g. duplicate Columbia publications in Columbia university library; stock on hand
.263 Cataloging
.264 Arrangement
.265 Sale for cash
.266 Exchange
General exchange of publications; exchange accounts
.267 Clearing house for duplicates
See also 021.852 Vattemare international exchanges, Smithsonian exchanges
.268 Gifts to other libraries
.269 Deposits
By large libraries in small or in hospitals, prisons, etc. also deposits in great collections by individuals or small libraries. See also 025.218
.29 Special material
Divided like 025.17

025.3 **Catalog**

For printed catalogs themselvs, see 017–019. This is for *cataloging*
Printed, manuscript, or card; Author, subject, title, clast; Dictionary or combined; Cooperativ rules; Size notation; Cooperativ cataloging; Duplicated titles, print or photografy; Mechanical accessories, cards, cases and fittings, drawers, trays, blocks, checks, guides, labels

4 **Classification**

For philosofic classification of knowledge, see 112 Methodology. This is for practical classing of books, pamflets, and notes, rather than theoretic speculation
On shelvs; in catalogs; in dictionary catalogs; Systems of notation, figures, letters, symbols, combined; Importance and advantages; Difficulties; Close vs broad classing; Mnemonic features; Basis of division; Coordination of special subjects

.5 **Reference Reference books Aids to readers**

See 028 for general discussion of reading and aids. This is limited to library administration

.6 **Loan**

See 024.1 and 024.6 for regulations
Indicators; Charging systems, legers vs cards; Book cards, marks, pockets; Call slips, readers cards; Notises, reservs; Registers; Interlibrary loans; Mechanical accessories, slip cases, trays, tills, stamps, etc.

.7 **Binding and repair**

See also 686 Bookbinding
Materials, durability, tight vs spring backs, sewing, color, lettering; Paper covers and temporary binders; Restoring, mending, cleaning, and oiling

.8 **Shelf**

See also 022.9, Shelving
Arrangement; Shelf numbers; Shelf and book labels; Fixt and relativ locations; Sizes of shelvs; Arrangement and preservation of public documents, pamflets, papers, manuscripts, maps, drawings, and plans, music, broadsides, clippings; Chaind books; Injuries, heat, gas, insects; Stock taking; Shelf lists

.9 **Bilding: care, cleaning, safety Janitor Police**

See 022 for bilding and fittings. This is janitor's department

026 Libraries on special subjects

Histories, reports, statistics, bulletins, handbooks, circulars, and everything about the library not more required in preceding sections. Subdivided by adding the class number of subject; e. g. a Medical library is 026.61; a Chess library, 026.794; but the *catalog* of a chess library is 016.794. Blanks, etc. from any library go under subjects in 025, as more used in studying topics; but, if history of individual libraries is specialized, duplicates are also desirable under the library in 026–7, thus making a complete set of its publications

027 General libraries

This includes both circulating and reference; i. e. all not limited to special subjects

Subdivided if wisht by countries, like 930–999; e. g. 027.744 College libraries in France. , Or if wisht, group all by geografic location, using 0 in 4th place to indicate no division by *kinds* of libraries; e. g. 027.044 Libraries of France; 027.07471 Libraries of N. Y. city

A private library is still clast 027.1, after it has been sold or merged in a public library. But a society library changed to a free public should take 027.4 for all publications after the change

.1 Private and family

.2 Proprietary, society, club and Atheneum

.2 is limited to libraries that are semiprivate, requiring an election for admission, while .3 includes all open to any one on payment of a fee. It is the difference between a club and a hotel. .3 is for libraries run as a business. A mercantil library, even tho it has endowments, if open without individual election, goes in .3 as a subsidized public subscription library. Many private subscription libraries go in .2

.3 Subscription Circulating

Mudie's, Booklovers, etc.

.4 Free public Rate supported Endowd

Public library commissions. See also 331.85; and 027, last note

.42 Special kinds of public libraries

General discussion of county or rural libraries, etc.

.5 State and government

.6 For special classes

Institution, prison, reformatory, asylum, blind, monastic, workmen's, factory, railroad, sailors, lighthouse. A workmen's library of books on engineering is 026.62, not here, as the subject is more useful than the class of readers

.7 College, university

For libraries of professional and technical schools see 026

.8 School Sundayschool Parish

See also 371.64 Libraries as school equipment; 021.3 Library in relation to schools and the young

.9 Free newsrooms and reading rooms

See also 331.85

028 Reading and aids

See 374.1–.2 Self education by private reading and reading circles

.1 Methods

Tasting, skipping, reviewing, making synopses, abstracts, extracts, and index rerums (see 029), book marking

.2 Choice of editions

Annotations, indexes, paper, type

.3 Courses of reading

Both discussion and lists of books

For sets of books representing prescribed courses for general culture, e. g. *Harvard classics*, see 080

.4 Fiction Novel reading

Discussion. Short selected lists may be put here, tho all fiction lists are better together in 016.823 (in German libraries 016.833, French libraries 016.843, etc.)

.5 Reading of young Juvenils

Both discussion and lists of books

.6 Professorships of books and reading

Lectures. Stimulus and guidance in schools

.7 Use of reference books

.8 Aids to readers

Guidance, printed or personal. See also 028.6 and 025.5

.9 Character of reading in libraries

029 Literary methods and laborsavers

Much in 025 and 028 belongs equally under 029 in its full meaning, but practical convenience is best servd by referring to 025 and 028 insted of repeating the heds

.1 Methods

Exact reference; standard sizes; use of colors; thought study; intercalation, or card system (see 025.3); cooperativ methods; records vs memory, etc. See 653 Abbreviations and shorthand; 154.1 Mnemonics; 025.4 Classification

.1 is for what one *learns* how to do by an improved *method*

.2 is for articles which one must make or buy in order to utilize. Where a pamflet covers both appliance and method, class with predominant feature

.2 Appliances Laborsaving tools and devices

See also 651. Most literary laborsaving devices go also under 651, Offis equipment and methods; and are best kept together there; e. g. all offis and study furniture, fittings and supplies, cases, bookholders, reading desks, pigeonholes, files, etc. For pamflet, map, etc. cases, see 025.8; for binders, 025.7

.3 Clippings Scrapbooks or files

See also Files, 651

.4 Notebooks, notetaking, abstracting, etc.

.5 Indexing Index rerums Printed and patent indexes

For alfabeting and transliteration see 025.3

.6 Authorship Writing for press Copy and proof

See also 655.25 Proofreading; 655.52 Relations to publishers

.7

.8

.9

030 General cyclopedias

Subdivided by using for 3d figure; 1 American; 2 English; 3 German; 4 French; 5 Italian; 6 Spanish; 7 Slavic; 8 Scandinavian; 9 Other; e.g. American cyclopedias, 03 1

040 General collected essays

Subdivided like 030

050 General periodicals Magazines

Subdivided like 030

060 General learned societies Museums

Subdivided like 030

Academies of Paris, Berlin, Vienna, etc. Societies on a specific subject go with that subject; e. g. 550.6 Geologic societies. See also 360 Institutions and associations, for philanthropic, political, social and similar organizations

070 Journalism General newspapers

See also 029.3 Clippings Clipping bureaus
179.1 Morals of the press
323.445 Liberty of the press (political science)
351.751 Regulation of the press (government administration)
396.507 Women in journalism
655 Printing Publishing Copyright
741 Cartoons Caricatures

.1 Utility Theories Relations to other professions

For government relations see 070.15

.11 Standards Ethics Influence Responsibility

General and higher view, educativ influence; for degradation of the press see 070.16

.12 Endowd newspapers

Independence of popularity

.13 Liberty of the press Censorship

Individual privacy; diplomatic secrets; seditious or anarchic influence

See also political science,323.445 Freedom of the press

.14 War censorship

.15 Subservience to special interests

Use by sectarian, partizan or private interests. Government relations and influence: subsidies, 'reptil fund'

.16 Sensational or ' yellow ' journalism

Fictitious news; scandals, murder and divorce trials; blackmail, bribes

.17

.18 Anonymous journals

Those with editors or place of publication unknown

.19 Other general questions

Comparison of field, importance and influence of newspaper, periodical and book

.2 Ownership and control

.22 Newspaper names

.23 Location

.232 Metropolitan Large city

.234 Provincial Small city

.236 Rural or village

.26 Syndicates Patent insides

070.3 Business management

.31 Staff and workmen

.311 Offis staff

Manager, stenografers, bookkeepers, clerks, messengers

.312 Workmen

Compositors, foundrymen, pressmen, mechanics, laborers

.315 Hours, shifts

.318 Newspaper strikes

.32 Newspaper printing

Class here discussion of economy and other advantages of special methods and appliances

For mechanism and operation of newspaper presses see 655.31 Printing presses

.321 Size of page

.322 Methods and appliances

2 Composition: linotype, monotype, etc.

3 Stereotyping

4 Presses

.324 Newspaper cuts: wood, zinc line, halftone

.325 Frequency of issue

Daily, semiweekly, weekly, etc.

.327 Time of issue

Morning, evening, successiv editions, extras

.328 Size of editions, number printed

.33 Distribution Circulation Sale

.331 Direct: subscription Mailing

.332 House delivery

.334 Indirect: newsboys, news agencies, etc.

Crying and peddling in streets and news stands

.336 Advertizing methods

Subdivided like 659.1 Advertizing

.337 Specialties

As means of increasing circulation. For special departments see 070.43

Regular: foren or marine news, stocks, sporting, etc.

Occasional: adoption of popular causes, exposure of abuses, etc.

.338 Other means of increasing circulation

Competitions, guessing contests, prizes, fairs, lotteries, expeditions, etc.

.34 Cost of production Expenses

.341 Plant: bilding and equipment, offises

Duplicate plant. Depreciation of machinery

.343 Supplies: paper, stationery, etc.

.344 Salaries and wages

Space rates. Pay of journalists, pecuniary inducements of vocation. Traveling expenses

.345 Postage: pound rates, free carriage

.348 Advertizing

Necessity and cost of advertizing itself to gain circulation and secure advertizements. For methods see 070.336

.349

070.35 Sources of income Receits
Sales, subscriptions, subsidies. For bribes see 070.16
.36 Advertizing department
Including all business pertaining to a journal's advertizing colums. For advertizing agencies see 659.1
.39 Foren offises
Subdivided like 940–999; e.g. *N Y herald* office in Paris 070.3944
.4 Editorial management
.41 General
Editing rules: order of departments and articles; style; newspaper diction
.42 Staff: reporters, correspondents
Organization: hours, duties. For pay see 070.344
.43 Editorial departments
.431 News
1 **Sources and channels of news**
Telegraf, telefone, wireless, mail, reporters, carrier pigeons, other. Utilization and precautions; conflicting news
2 Press bureaus: associated press
Laffan and other news bureaus. For clippings see 029.3 under Literary methods and labor savers
5 **Foren**
6 **Home**
7 **Local**
.432 Leaders, editorials
.433 Local interests
Discussion of local affairs, questions affecting schools, library, public works, etc. For local *news* department see 070.4317
.44 Special subjects: departments and editors
.443 Financial: stocks, business, shipping, etc.
.445 Household Home Women Children
2 **Cookery**
4 **Clothing Fashions**
6 **Hygiene Care of children**
7 **Women's clubs**
8 **Children's department: games, puzzles, etc.**
.446 Recreation Sporting
.447 Art, musical and dramatic
7 **Art**
8 **Musical**
9 **Dramatic**
.448 Literary
1 **Poetry**
3 **Fiction**
.449 Other departments
2 Religion; 3 Education; 5 Science; 8 Humor

070.45 Voluntary correspondents Contributors
.47 Special editions
Sunday newspaper. Supplements. For extras see 070.327
.48 Special kinds of journals
.481 Official journals
.482 Religious
.483
.484 For foren population
In language foren to country in which publisht
.485 Propagandist
.486 Professional and technical
.487 Humorous
.488 Literary
.489 Other: amateur, etc.

070.5-.9 Form divisions

.5 Periodicals on journalism
.6 Press clubs Conventions Expositions
.7 Study and teaching of journalism College courses
Schools Personal qualifications for journalism
.9 History of newspapers and journalism
General History of American newspapers 071, of German journalism 073 etc. Class history of a particular journal with that journal

071-079 Newspapers of various countries

The 3d figures 1–9 are used as follows:

1 American	4 French	7 Slavic
2 English	5 Italian	8 Scandinavian
3 German	6 Spanish	9 Other

In large collections use geografic divisions under 1, American; 2, English, etc. as in 970 and 940–999. Because of large size and very general character, it is better to keep newspapers together here than to class with local history of the place where publisht. They could not go on shelvs with ordinary books, and a reference is made as easily to them under 070 as anywhere.

080 Special libraries Polygrafy

For sets or ' libraries ' so constituted as not to be redily scatterd by subjects, and miscellaneous information; but class in 803 literary questions and answers, even tho not alfabetic. Collections conditiond by terms of gift on being kept together may be put here, but for preferable treatment of sets, see Introduction p. 28^6, section 10, and p. 35^3 under Reference library. If limited to a special subject, treat like Phoenix library, but shelv the collection in a block before or after the regular books on the same subject; e. g. the Doe collection on Spanish painting, D759.6, would stand together, yet would be where it belongd with the rest of the books on that subject.

090 Book rarities

Books about these topics, and those chiefly valuable because of their rarity, go here. A rare early edition of Shakspere goes in 822.33 with reference from 099. 090 is mostly used for grouping references to books located elsewhere.

091 Manuscripts Autografs

Class in 096 mss important chiefly for illumination. Photografs of mss, when more valuable for subject matter, go with subject rather than here
For Diplomatics and Paleografy, see 417, and under the special language, 421.7, 431.7, etc.

092 Block books

093 Early printed books Incunabula

Colophons

094 Rare printing

Aldines, Elzevirs, Caxtons, etc. Privately printed books; unique books

095 Rare binding

Noted binders, costly ornaments, curious bindings

096 Rare illustrations or materials

Illuminated Illustrated by inserted plates Printed on vellum, silk, bark, etc. in gold or silver letters, etc.

097 Ownership Book plates Ex libris

098 Prohibited Lost Imaginary

099 Other rarities Curiosa Minute size, etc.

Philosofy

100 Philosofy in general

Works limited to none of the 9 divisions

101 Utility

102 Compends, outlines

103 Dictionaries Cyclopedias

104 Essays, lectures, addresses

105 Periodicals Philosofic magazines

106 Societies: transactions, etc.

107 Study and teaching of philosofy

108 Polygrafy, extracts, maxims, etc.

109 History of philosofy

110 Metaphysics

111 Ontology

Nature of being Substance and form

112 Methodology

Philosofic classification of knowledge Terminology For book classification see 025.4

113 Cosmology

Philosofic theories and discussion; for philosofy of mathematic processes see 510.1

114 Space

115 Time

116 Motion

117 Matter

118 Force

119 Quantity Number

120 Other metaphysical topics

121 Theory of knowledge Origin Limits
Doubt, denial, belief

122 Causation Cause and effect

123 Liberty and necessity
See also 233.7 Freedom; 234.9 Predestination; 159 Will

124 Teleology Final causes

125 Infinit and finite

126 Consciousness Personality See also 233.6 Doctrin

127 Unconsciousness Automata

128 The soul See 218 Natural theology; 237 Future state

129 Origin of the individual soul

.1 **By special creation** See also 213 Creation

.2 **By inheritance Traduction**
See 575.1 Evolution; 136.3 Mental heredity; 233.3 Spiritual heredity

.3 **Pre-existence**

.4 **Transmigration Palingenesis**

.5 **Emanation** See also 147 Pantheism; 212 Natural theology

130 Mind and body Anthropology

Psychic research

131 Mental physiology and hygiene
New thought. For influence of mind on body, mind cure, etc. see 615.851; see also 612.8 Physiology of nervous system, 613.8 Hygiene of nervous system

132 Mental derangements
See also 616.8 diseases of nervous system

.1 **Insanity** See 362.2 Asylums; 920.8 Lives; 616.84 Disease

.2 **Idiocy** See 362.3 Asylums; 920.8 Lives; 371.922 Education

.3 **Hypochondria Melancholy** See 616.852 Hysteria

.4 **Catalepsy** See 616.852 Hysteria

.5 **Ecstatics**

.6 **Kleptomania and other leading to crime**

.7 **Dipsomania and other leading to vice**
See also 178 Temperance; 616.861 Alcoholism

.8 **Mnemonic derangements**
Not knowing in one state what past in another. See also 154 Memory

133 Occultism Witchcraft Magic

.1 **Apparitions Ghosts**

.2 **Hallucinations**

.3 **Divination Oracles Second sight Omens Predictions**

.4 **Witchcraft Sorcery** See also 272.8 Persecutions

.5 **Astrology** See also 520.1 Astrology

.6 **Palmistry**

.7 **Humbugs Quackery**

.9 **Spiritism Table-tipping, etc.** See also 289.9 Sects

134 Mesmerism Animal magnetism Clairvoyance
Psychic phenomena, hypnotism

135 Sleep Dreams Somnambulism

136 Mental characteristics

See also 131 Mental physiology

.1 **As influenced by sex**

See also 376.2 Mental capacity of women

.2 " " " **physical surroundings**

See also 575.3 Evolution; 573.4 Natural history of man

.3 " " " **ancestry (Mental heredity)**

See also 575.1 Evolution; 233.3 Spiritual heredity; 129.2 Origin of soul; 613.92 Hygiene

.4 " " " **race Racial characteristics**

See also 572 Ethnology

.5 " " " **age**

See also 136.7 Childstudy

.6 " " " **physical structure and conditions**

.7 **Childstudy Paidology**

Including adolescence

.702 **Methods**

1 Laboratory

2 Home

.708 **Observations, records Albums**

.71 Body: structure, growth, care

Limited to development period

See also 136.3 Mental heredity 612.65 Growth

371.7 School hygiene 613 Hygiene

612.64 Embryology 613.9 Heredity

.72 Mind

Limited to period of physical development

In a general library better clast in 130 and 150 with only references here

.73 Mental characteristics

Groupt by influence like 136.1–.6

.74 Children's point of view

Divided like the classification: e. g.

.7417 Ethics .7479 Games

.742 Religion .748 Literature

.75 Delineation of children

Psychology of children from authors' and artists' point of view

.757 **In art**

.758 **In literature**

.76 Abnormal children

Study of development. For methods of instruction see 371.9

For institutions see 362, 364

.761 Physically defectiv

1 **Blind**

2 **Def**

3 **Blind-def**

.762 Mentally defectiv

Divided like 132 Mental derangements; e.g. study of idiotic children 136.7622

.763 Morally defectiv Delinquents

.764 Wildings

Wildings: a class of children which, having been lost or deserted, have grown up away from the surroundings of children, alone or among animals. *Paidology* 1: 196 (July 1900)

136.765 Exceptionals Precocity
.766 **Backward children**
.767 Dependents
Homeless children, a public charge, lacking ideas and associations of children in families
.769 Other abnormal classes
.77 Boys The 'gang' The boy problem
.79 Childhood Divided like 930–999
.791 The child among uncivilized and semicivilized peoples

137 Personality
Temperaments, idiosyncrasy

138 Physiognomy
Expression of mentality thru the body

139 Phrenology Mental photografs, etc.

140 Philosofic systems

The heds 140–149.9 are for the discussion of the systems as such. The philosofic works of authors of these various schools are clast under 190, not here. From these heds refer in the catalogs to authors clearly falling under them, without attempting to label each writer as an exponent of some one system

141 Idealism Transcendentalism
e. g. Plato, see 184.1, 888.4; Berkeley, see 192.3; Fichte, see 193.3; Emerson, see 191.3, 814.36

142 Critical philosofy
e. g. Kant, see 193.2

143 Intuitionalism
e. g. Reid, see 192.5; McCosh, see 191.5. See also 156 Intuitiv faculty; 171.2 Ethics.

144 Empiricism
e. g. Descartes, see 194.1; Bacon, see 192.1

145 Sensationalism
e. g. Locke, see 192.2

146 Materialism Positivism
e. g. Hobbes; Comte, see 194.8 See also 149.2 Realism

147 Pantheism Monism
e. g. Spinoza See 212 Natural theology

148 Eclecticism
e. g. Cousin, see 194.7

149 Other philosofic systems
See 211 Rationalism, skepticism; 214 Fatalism

.1 **Nominalism**
.2 **Realism** See 146 Materialism
.3 **Mysticism** See 273.2 Heresies; 189.5 Medieval philosofy
.4 **Associationalism**
.5 **Optimism Meliorism**
.6 **Pessimism**
e. g. Schopenhauer, see 193.9 See also 216 Evil; 233 Doctrin of man
.7 **Agnosticism**
See 273.8 Agnostic heresy
.8 **Nihilism**
.9 **Other systems**

150 Mental faculties Psychology

For related topics, see Mental in Relativ index following Tables

151 Intellect Capacity for knowing

.1 **Genius**

152 Sense Sense perceptions

See also physiology 612.84–88

Passiv or receptiv faculty

.1 **Vision**
.2 **Hearing**
.3 **Smell**
.4 **Taste**
.5 **Touch**
.6 **Muscular sense**

153 Understanding

See also 612.821 Physiologic psychology

Activ or thinking faculty

.1 **Conception The concept or notion**
.2 **Association**
.3 **Abstraction**
.4 **Reflection**
.5 **Judgment**
.6 **Reasoning Induction and deduction**
See also 160 Logic

154 Memory Reproductiv power

See also 132.8 Mnemonic derangements

.1 **Mnemonics**

155 Imagination Creativ power

.1 **Fancy Imaging power**

156 Intuitiv faculty Reason

For reasoning, see 153.6

157 Sensibility Emotions Affections

158 Instincts Appetites

159 Will

160 Logic Dialectics

See 153.6 Reasoning power. For logic of chance, see 519 Probabilities

161 Inductiv

162 Deductiv

163 Assent Faith

See also 234.2 Doctrinal theology

164 Symbolic Algebraic

Logical machines

Logical topics

165 Sources of error Fallacies

166 Syllogism Enthymeme

167 Hypotheses

168 Argument and persuasion

169 Analogy Correspondence

See also 219 Natural theology

170 Ethics: theoretic and applied

Many topics in applied ethics occur also in law, specially in 343 Criminal law

See also 377.2 Ethical education.

.1 .2 Compends .3 Dictionaries .4 Essays .5 Periodicals .6 Societies; Society for ethical culture .7 Study and teaching .8 Polygrafy .9 History

171 Theories Philosofy of ethics

Theories of the basis of morality

.1 **Authority Will of God Christian**

For rules of Christian conduct see 241

.2 **Intuition Moral sentiment**

See also 143 Intuitionalism; 156 Intuitiv faculty

.3 **Perfection**

.4 **Happiness Hedonism**

.5 **Utilitarianism**

.6 **Conscience Casuistry**

.7 **Evolutionary or educational**

.8 **Altruism**

.9 **Egoism**

172 State ethics

.1 **Individuals and the state Duties of citizens Patriotism**

See also 320 Political science

.2 **Duties of public offisers** Official corruption

.3 **Relations to church**

Duty of state as to support and protection of church

See also 261.7 The church; 322 Church and state; 272 Persecutions

.4 **International ethics Peace and war**

See also 341 International law

173 Family ethics

.1 **Marriage and divorce** See also 347.6 Family law
.2 **Polygamy and monogamy** See also 298 Mormonism
.3 **Duties of husbands and wives**
.4 Infanticide
.5 **Duties of parents**
.6 **Duties of children**
.7 **Home life**
.8 **Masters and servants** See also 647 Servants; 331 Labor
.9

174 Professional and business ethics

.1 **Clergy**
.2 **Physicians**
.3 **Lawyers**
.4 **Merchants** **Business men** **Business virtues and vices**
.5 Speculation Mammonism Avaris
.6 Gambling Lotteries
See also 175 below
.7 Honor, honesty Dishonesty
Compact, promis; chicanery, trickery
.8 **Employers and employd**
.9

175 Ethics of amusements For amusements, see 790

.1 **Public shows and diversions** **Rinks, circuses, etc.**
.2 **Theater** **Opera** **Private theatricals**
.3 **Dancing** **Balls** **Round dances**
.4 **Games of skill: billiards, chess, etc.**
.5 **Games of chance: cards, dice, etc.**
.6 **Prize fighting** **Animal fighting: bull, dog, cock, etc.**
.7 **Racing: horse, boat, pedestrian, wheel, etc.**
.8 **Novel reading**
.9 **Betting** **Poolselling** See 174.6

176 Sexual ethics

.1 **Chastity**
.2 **Celibacy** See also 254 Celibacy of clergy
.3 **Continence**
.4 **Solitary vice**
.5 **Social evil** See also 258 Parish care of fallen
.6 **Adultery**
.7 **Immoral art**
.8 **Immoral literature**
.9

177 Social ~~ethics~~ Conventions

.1 **Curtesy**
See also 395 Etiquet

.2 **Conversation Gossip**
See also 374.1 Self culture

.3 **Truth Slander Flattery**

.4 **Dress Display Sumptuary legislation**

.5 **Caste Class feeling Welth and rank**
See also 294 Brahmanism, and 323.31 Nobility, welthy class

.6 **Friendship Courtship Coquetry**

.7 **Philanthropy Humanity**

.8 **Solitude vs social obligations**

.9

178 Temperance Stimulants and narcotics

May be divided by form .01-.09; see Index table 2, following Relativ index
See also 132.7 Dipsomania; 331.84 Laboring classes; 613.3 Beverages; 613.8 Nervous system

.1 **Use of intoxicating drinks Beer drinking Medicinal use**
See also 616.861 Alcoholism; and Alcohol, Alcoholic, in Relativ index

.2 Total abstinence vs temperance

.3 Social drinking Wine at table Treating

.4 **Traffic in intoxicating drinks License High license**
See also 336.27 Taxation

.5 Prohibition
Including legal discussion of prohibition. See also 329.81 Prohibition party

.6 **Inebriates**
Discussion, reformation. For reformatories and inebriate asylums see 362.8

.7 **Tobacco**

.8 **Opium Hashish Chloral Ether and other drugs**

.9 **Gluttony and other intemperance**

179 Other ethical topics

.1 **Morals of the press Newspapers**
See also journalism, 070.11

.2 **Cruelty**
Societies for preventing cruelty to children and also general humane societies covering work for both children and animals. See also 173.4 Infanticide; 331.3 Labor of children

.3 Cruelty to animals

.4 Vivisection
See also 614.22 Vivisection laws

.5 **Oaths**

.6 **Heroism Bravery Cowardis**

.7 **Life Dueling Suicide**
See also 394.8 Dueling as a custom

.8 **Pride Covetousness Envy Anger Sloth Jelousy Hate and other vices**

.9 **Humility Liberality Gentleness Patience Diligence Charity Modesty, and other virtues**

[redacted]

[redacted]

[redacted]

186 Pyrrhonist New Platonist

.1 **Pyrrhonism Skepticism Pyrrho, Timon**

.2 **New Academy: Arcesilaus, Carneades, Plutarch**

See 888.8 Plutarch's works

.3 **Eclecticism: Cicero** See 875.4

.4 **Alexandrian, Neo-Platonic: Philo, Plotinus, Proclus, Porphyry, Iamblichus** See 239.4 Apologetics; 273.1 Heresies

187 Epicurean: Epicurus Lucretius See also 871.1

188 Stoic

.1 **Zeno**

.2 **Cleanthes**

.3 **Chrysippus**

.4 **Panaetius**

.5 **Posidonius**

.6 **Seneca** See 878.5; 872.6

.7 **Epictetus**

.8 **Marcus Aurelius**

189 Early Christian and medieval philosofers

.1 **Gnosticism** See 273.1 Basilides, Marcion. See 273.2 Manichelsm

.2 **Patristic: Tertullian, Augustine, Clement, Origen**

.3 **Arabian: Avicenna, Averroes**

.4 **Scholastic: Scotus, Aquinas, Anselm, Abelard**

.5 **Mystic: Reuchlin, Cornelius Agrippa, Paracelsus, Servetus, Böhme**

190 Modern philosofers

See also 921.1 to 921.8 Biografy of philosofy, or lives may be put here with works, with references only under 920 Biografy. Philosofic works are put here, not under the School or System to which the author may be thought to belong. See note under 140

191 American philosofers

These numbers may be left blank for future use or used for the well know names among American philosofic writers given below

.1 **Jonathan Edwards** 1703–58

.2 **Orestes A Brownson** 1803–76

.3 **Ralph Waldo Emerson** 1803–82 See 814.36

.4 **Laurens P Hickock** 1798–1888

.5 **James McCosh** 1811–94

.6 **Noah Porter** 1811–92

.7 **Francis Bowen** 1811–90

.8 **William Torrey Harris** 1835–1909

.9 **Other American philosofic writers**

192	British philosofers		
.1	Bacon	1561–1626	See 144 Empiricism
.2	Locke	1632–1704	See 145 Sensationalism
.3	Berkeley	1685–1753	See 141 Idealism
.4	Hume	1711–76	See 824.64 English essays
.5	Reid	1710–96	See 143 Intuitionalism
.6	Dugald Stewart	1753–1828	
.7	John Stuart Mill	1806–73	
.8	Spencer	1820–1903	
.9	Other British philosofic writers		
193	German philosofers		
.1	Leibnitz	1646–1716	
.2	Kant	1724–1804	See 142 Critical philosofy
.3	Fichte	1762–1814	See 141 Idealism
.4	Schelling	1775–1854	
.5	Hegel	1770–1831	
.6	Schleiermacher	1768–1834	
.7	Schopenhauer	1788–1860	See 149.6 Pessimism
.8	Lotze	1817–82	
.9	Other German philosofic writers		
194	French philosofers		
.1	Descartes	1596–1650	See 144 Empiricism
.2	Malebranche	1638–1715	
.3	Condillac	1715–80	
.4	Rousseau	1712–78	
.5	Diderot	1713–84	
.6	Lamennais	1782–1854	
.7	Cousin	1792–1867	See 148 Eclecticism
.8	Comte	1798–1857	See 146 Positivism
.9	Other French philosofic writers		
195	Italian philosofers		
196	Spanish philosofers		
197	Slavic philosofers		
198	Scandinavian philosofers		
199	Other modern philosofers		

The heds of 180–199 are for discussions of the systems of these men and for their philosofic works not clearly belonging elsewhere, not for *all* their works. Mill's Logic is 160 not 192.7, but his *complete works* bound together are 192.7. Plato and Aristotle have individual numbers, 888.4 and .5, where their works are more useful than in 184–5 because of their classic prominence.

Religion

200 Religion General works

201 Philosofy, theories, methods

202 Compends, outlines, systems

203 Dictionaries, cyclopedias

204 Essays, lectures, disputations, addresses

See also 252 Sermons

205 Periodicals, magazines, reviews

206 Societies: transactions, reports, etc.

General conferences. Societies whose work is largely done by paid offisers, most members merely contributing money; e. g. Pan-evangelical alliance, Bible and tract societies. Put history, reports, etc. here, but their publications of course go with subject

207 Education: theologic seminaries, training schools Divided like 940–99

208 Polygrafy: collected works, extracts, etc.

Many collections go under a more specific hed; e. g. 240

209 History of religion

General, including ecclesiastic antiquities, statistics, etc. See also 270 for Christian religion, and 274–279 for Christian antiquities of special countries

210 Natural theology

Concerns evidence in nature exclusiv of revelation, also Christian or skeptic discussion of specific topics (211–214, 216–218). For general defense of Christian theology, see 239 Apologetics, subdivided according to kind of criticism

211 Deism and atheism

Skepticism. Infidelity. Rationalism, etc.

Atheism denies existence of God. Deism accepts existence, but denies revelation and rejects Christianity. Theism believes in a god supernaturally reveald, e. g. Judaism, Mohammedanism, Buddhism, etc. Arguments from nature in support of any of these views go here

See also 231 Christian theism; 239 Apologetics; 273.8 Agnostic heresy; 149.7 Agnosticism

212 Pantheism Theosofy See 147 Pantheism; 129.5 Origin of soul

213 Creation See 113 Cosmology Evolution See 575 Science

From religious viewpoint; attempts to harmonize *Genesis* and geology. See also metaphysics, 113 Cosmology; and natural science, 575 Evolution

214 Providence See 231.5 Doctrins Theodicy See 231.8 for Christian view

215 Religion and science See 239.8 Apologetics

Antagonism or reconciliation between science and Bible religion. Arguments of scientists against scientists. Bridgewater treatises. For creation, see 213

216 Evil Depravity See 149.6 Pessimism; 233.2 Sin

217 Prayer Prayer gage See 264.1 Prayer; 248 Personal religion

Tests of efficacy of prayer

218 Future life Immortality Eternity

See 237 Future state; 128 The soul

219 Analogies Correspondences See also 169 Logic

220 Bible General works

For similar works limited to Old or New Testament, or individual books, see specific hed below

.1 **Canon Inspiration Authorship Profecy**

.2 **Concordances Analyses**

.3 **Dictionaries Cyclopedias**

.4 **Original texts and early versions Codices**

Heds for old and new testaments are given, as they are also used for 221 and 225

.42 Chaldee

.43 Syriac

.44 Hebrew

.45 Samaritan

.46 Other Semitic: Ethiopic, Arabic, etc.

.47 Latin, Itala, Vulgate

.48 Greek, Septuagint Aquila, Symmachus, Theodotion Hexapla

.49 Other early versions: Armenian, Coptic, Gothic, etc.

220.4 and 220.5 are pure texts. A Hebrew bible with commentary goes in 220.7 with reference from 220.44

.5 **Versions of Bible Polyglots** Divide by languages, like 400

These are translations from the original Hebrew and Greek. Translations from other early texts go with them in 220.4; e. g. an English translation of the Syriac goes in 220.43

.6 **Hermeneutics Exegesis Symbolism Typology**

.7 **Commentaries on whole Bible, and annotated editions**

For notes, etc. on portions of the Bible, see the most specific hed in 221–229

.8 **Special topics**

Divided like general Classification; e. g. natural science of the Bible in 220.85

.9 **Biblical geografy and history**

.91 Biblical geografy, description, etc.

See 915.69, 913.33 Palestine

.92 Scriptural biografy

See also 922.1; 232.9 Lives of Christ

.93 Antiquities, archeology

See also 296 Jewish religion; 933 History of Jews

.94 Chronology

.95 History

See 933 Jews

221 Old testament: texts, introductions, etc.

Divided like 220; e. g. 221.7. Commentaries on Old Testament

222 Historical books

.1 **Pentateuch**
.11 Genesis
.12 Exodus
.13 Leviticus
.14 Numbers
.15 Deuteronomy
.16 Decalog
.2 **Joshua**
.3 **Judges and Ruth**
.4 **Samuel**
.5 **Kings**
.6 **Chronicles**
.7 **Ezra**
.8 **Nehemiah**
.9 **Esther**

223 Poetic books

.1 **Job**
.2 **Psalms**
.3 Authorship and chronology
.4 Special groups
Messianic; Greater Hallel; Lesser Hallel; Vesper psalms; Penitential, 6, 32 38, 51, 102, 130, 143; Hebraic five books, Psalms 1–41; 42–72; 73–89; 90–106; 107–150
.5 Liturgic use by Christians Metrical versions
See 264.038 Anglican psalter; 245 Hymnology
.6 Commentaries on psalms
.7 **Proverbs**
.8 **Ecclesiastes**
.9 **Song of Solomon, or Canticles**

224 Profetic books

.1 **Isaiah**
.2 **Jeremiah**
.3 **Lamentations**
.4 **Ezekiel**
.5 **Daniel**
.6 **Hosea**
.7 **Joel**
.8 **Amos**

224.9 **Other minor prophets**
.91 Obadiah
.92 Jonah
.93 Micah
.94 Nahum
.95 Habakkuk
.96 Zephaniah
.97 Haggai
.98 Zechariah
.99 Malachi

225 New Testament: texts, introductions, etc.

Divided like 220

226 Gospels and Acts

.1 **Harmonies**
.2 **Matthew**
.3 **Mark**
.4 **Luke**
.5 **John**
.6 **Acts of the apostles**
.7 **Miracles**
.8 **Parables**
.9 **Lord's prayer**

227 Epistles

.1 **Romans**
.2 **Corinthians 1**
.3 **Corinthians 2**
.4 **Galatians**
.5 **Ephesians**
.6 **Philippians**
.7 **Colossians**
.8 **Other Pauline epistles**
.81 Thessalonians 1
.82 Thessalonians 2
.83 Timothy 1
.84 Timothy 2
.85 Titus
.86 Philemon
.87 Hebrews

227.9 **Catholic epistles**
.91 James
.92 Peter 1
.93 Peter 2
.94 John 1
.95 John 2
.96 John 3
.97 Jude

228 Apocalypse

229 Apocrypha
.1 **Esdras 1, 2**
.2 **Tobit, Judith, Esther**
.3 **Wisdom**
.4 **Ecclesiasticus**
.5 **Baruch, Epistle of Jeremy, Song of the three children**
.6 **Story of Susanna, History of Bel and the dragon, Prayer of Manasses**
.7 **Maccabees 1, 2, 3, 4**
.8 **Pseudo gospels**
.9 **Apostolic epistles and canons** **Clementines** See 281.1

230 Doctrinal Dogmatics Theology

General doctrinal works may be subdivided by churches like 280–289. See also 252.3 Class here polemics either offensiv or defensiv, when distinctly doctrinal; but class in 280 history of a sect, even if largely controversial and of a limited period. Class controversy about a special doctrin with its subject; e.g. controversy on the atonement 232 3

231 God Unity Trinity
.1 **God the Father, Creator**
.2 **God the Son, Redeemer**
Second person of the Trinity, irrespectiv of his appearance on earth as the historic Christ
.3 **God the Holy Ghost, Giver of Life, Sanctifier**
.4 **Divine attributes: omniscience, omnipresence, omnipotence**
.5 **Divine providence** See also Natural theology 214
.6 **Divine love and wisdom**
.7 **Divine law and miracles**
.8 **Theodicy**
Vindication of God's justis in permitting evil. See also Natural theology, 214
.9

232 Christology

.1 **Incarnation** **Messiah**
.2 **Logos, the Word of God**
.3 **Atonement**
.4 **Sacrifice**
.5 **Resurrection**
.6 **Second coming** See also 286.7 Second adventists
.7 **Judgment**
.8 **Divine humanity**
Divinity of the man Jesus, pro and con
.9 **Lives of Christ**

233 Man

.1 **The fall**
.2 **Sin**
.3 **Moral and spiritual heredity**
See also Biology, 575.1; Psychology, 136.3; Metaphysics, 129.2
.4 **Accountability**
.5 **Natural and spiritual body**
.6 **Personality** See also Metaphysics, 126
.7 **Freedom** See also 234.9; 123; 159
.8
.9

234 Salvation Soteriology

.1 **Grace**
.2 **Faith**
.3 **Redemption**
.4 **Regeneration**
.5 **Repentance**
.6 **Obedience**
.7 **Justification**
.8 **Sanctification**
.9 **Predestination and freewill** See also 233.7; 123; 159

235 Angels Devils Satan

236 Eschatology Last things

.1 **Deth**
.2
.3 **Millennium**
.4 **Intermediate state** **Sheol** **Hades**
.5 Purgatory
.6 Paradise Limbus patrum
.7 Limbo Limbus infantum
.8 **Resurrection**
.9 **Judgment** See also Christology, 232.7

237 Future state

See also Natural theology, 218

- .1 **Eternity**
- .2 **Immortality**
- .3 **Conditional immortality**
- .4 **Heven**
- .5 **Hell Gehenna**
- .6 **Retribution Future punishment**
- .7 **Eternal punishment** See also 289.1 Universalists

238 Creeds Confessions Covenants Catechisms

Divided more closely if wisht like 280–289; e. g. 238.19 Greek church

- .1 **Apostles, Nicene, and Athanasian creeds**
- .2 **Creed of Pius 4 (Trent) and later Roman**
- .3 **Anglican 39 articles, A. D. 1551** See also 264.037 Liturgy
- .4 **Continental protestant Lutheran Calvinist Dort**
- .5 **Westminster Saybrook Cong'l Cambridge Savoy**
- .6–.9 **Of other sects** Divided like 286–289

239 Apologetics Evidences of Christianity

If preferd, courses of apologetic lectures may be kept together; e. g. 239.01 Bampton; .02 Boyle; .03 Hulsean; .04 Bohlen; .05 Paddock; .08 Miscellaneous. More usefully each book is clast under the most specific hed that will contain it

See also natural theology 211–218 and doctrins 231–237 for discussion of separate topics

- .1 **Apostolic age**
- .2 Against the Jews
- .3 Against the heathen
- .4 Against the Neo-Platonists See 273.1 Gnostic heresy
- .5 **Against the English and Scotch deists** See 211 Deism
- .6 **Against the French encyclopedists**
- .7 **Against the rationalists**

  See 211 Natural theology; 273.8 Agnostic heresy; 149.7 Agnosticism
- .8 **Against the scientists** For nonchristian view, see 215
- .9 **Other special denials**

240 Devotional Practical

241 Didactic
Specifying the Christian's duty to do and to avoid For Catechisms see 238

242 Meditativ, contemplativ
Consolatory. See also 248 Personal religion

.1 **Thomas à Kempis**

243 Hortatory, evangelistic
Urging sinners to Christian repentance

244 Miscellany: religious novels, Sunday school books, allegories, satires, etc.
But class Bunyan in 823.42 because of his literary prominence

245 Hymnology Religious poetry
Hymns without music. For hymns with music see 783.9
Divided by languages, like 800, and then by churches, like 280, if denomination is clearly markt
See also 223.5 Psalms; 264.038 Psalter

246 Ecclesiology Symbolism Religious art
246–7 cover religious bearings. For art side see 700

.1 **Byzantine and Gothic ecclesiology**
See 723 Medieval architecture; 726 Religious architecture

.2 **Primitiv church and heathen art**

.3 Images in churches Iconoclasts

.4 **Protestantism and religious art**

.5 **Emblematic and cryptografic art: catacomb symbols**

.6 **Liturgic symbolism: altar, colors, lights**
See also 264 Public worship

.7 **Evangelistic use of music and art, pictorial and plastic: Della Robbias**

.8 **Eucharistic music: Ambrose, Gregory the Great Later development** See also 783 Sacred music; 264.2 Public worship

.9

247 Sacred furniture Vestments Vessels Ornaments, etc.

.1 **Font Baptistery Lectern Pulpit**

.2 **Tabernacle Rood screen Reredos**

.3 **Sculpture and mortuary design**
See 718 Monuments; 726.8 Mortuary bildings; 730 Sculpture

.4 **Illumination Mosaics Enamels Staind glass**
See also 745 Ornamental design; 748 Staind glass

.5 **Fresco and religious painting** See also 750 Painting

.6 **Pallium Miter Crozier Ring**

.7 **Vestments and altar cloths**

.8 **Eucharistic vessels** See also 265.3 Sacraments

.9 **Ornaments, etc: crucifix, banners, thurible, incense**

248 Personal religion Asceticism
See also 273.2 Ascetic heresy

249 Family devotions See 264 Public worship

250 Homiletic Pastoral Parochial

251 Homiletics Preaching See 264.6 Public worship
Divided like 252, for matter *about* special kinds of sermons

252 Sermons
When too varied for any of the subheds .1–.9, may be divided with .0 by churches and sects, like 280; e. g. protestant episcopal sermons 252.03, but a collection of bishop's addresses 252.1. Sermons on specific topics ar more useful, like other pamflets, clast with the topics, e. g. a sermon on family devotions is 249, not 252.4; on strikes, 331.89. Tho the 9 heds below ar for collections and cross references, they may be used for separate sermons if preferd

.1 **Episcopal charges Pastorals**
.2 **Controversial Polemic**
.3 **Doctrinal Dogmatic** See also 230 Dogmatics
.4 **Practical Devotional**
.5 **Academic Educational** See also 378.7 Baccalaureates
.6 **Political Public occasions and duties**
Thanksgiving and Fast day
.7 **Consecration Ordination Installation**
See also 265.4 Ordination; 265.9 Consecration; 262.16 Orders
.8 **Expository**
.9 **Memorial Obituary Biografic Historical**
Memorial of a special church goes with that church in 280. See also 920 Biografy

253 Pastoral visitations, evangelistic

254 Cleric support Celibacy
See also 176.2 Sexual ethics; 248 Asceticism; 613.89 Hygiene

255 Brotherhoods Sisterhoods
In the parish. For Monastic orders, see 271

256 Societies for parish work: gilds, sodalities
Local societies. Discussion of desirability of such work. For general societies see 206 and 267

257 Parochial schools Libraries, etc.
See also 377.5 Education; 027.8 Parish libraries

258 Parish care of sick, fallen, etc.
See 265.8 Ministry of sick; 176.5 Social evil

259 Other ministrations and work

260 Church Institutions and work

261 The church

Its influence on morals, civilization, etc. Relation to social questions, laboring classes, etc.

.1
.2
.3 **Church vs barbarism**
.4 **Church and morals**
.5 **Church and intellectual development** See also 377.8 Education
.6 **Church and civilization**
.7 **Church and civil government**
See 172.3 State ethics; 322 Church and state
.8 **National churches vs organic unity**
.9

262 Ecclesiastic polity

.1 **Ministry**
.11 Apostolic succession
.12 Episcopate
.13 Papacy Primacy Papal supremacy; infallibility, 18 July 1870
.14 Priest Presbyter Minister Lay ministry
.15 Deacon Deaconess Evangelist
.16 Orders Ordination See 265.4 Sacraments; 252.7 Sermons
.17 Episcopal
.18 Presbyterian
.19 Congregational
.2 **Parish Congregation** See 250 for Parochial work
.3 **See Diocese Cathedral system**
.4 **Council Synod Presbytery Congregation Convention**
Polity only, here. Proceedings go with churches, 281–9
.5 **General or ecumenic council** See also 270.2
.6 Canons Decrees
.7 **Traditions**
.8 **Authority Church and ministerial Private judgment**
.9 **Disciplin Courts Trials** For Canon law see 348

263 Sabbath Lord's day Sunday

.1 **Hebraic sabbath**
.2 **Modern sabbath Seventh day**
.3 **Lord's day Christian Sunday**
.4 **Sunday observance**
.5 Work
.6 Amusement
.7 Opening libraries and museums
See also 024.4 Library rules
.8 Sunday laws
.9

264 Public worship Divine servis Ritual

Prayer books. See also 246, Ecclesiology; 247 Sacred furniture. General works are divided with .0 by churches like 280; e. g. Roman catholic prayer book 264.02 Under various churches the servises may be further divided, as e. g.

.03 Anglican and American P. E. ritual
.031 Calendar Festivals and fasts See also 529.6 Chronology
.032 Lectionary and rubrics
.033 Morning prayer Litany
.034 Evening prayer Vespers Compline
.035 Sacraments, ordinances, and servises See also 265 Sacraments
.036 Collects, epistles and gospels
.037 Ordinal Articles Creeds See also 238.3 Creeds, doctrins
.038 Psalter and other See 223.5 Psalms; 245 Hymnology
.039 History of successiv prayerbooks
.1 Prayer Extempore Liturgic
See also 248–249 Private and family prayer
.2 Music Singing Instrumental Praise meeting
See also 783 Sacred music; 246.7, 246.8 Ecclesiology
.3 Scripture readings
.4 Antiphonal or responsiv readings
.5 Confessions of faith Creeds See also 238 Creeds
.6 Sermons Exhortations Instructions
See also 251 and 252 Preaching and sermons
.7 Prayer and conference meetings
.8 Class and covenant meetings Love feasts
.9 Sacramentals See also 265 Sacraments

265 Sacraments Ordinances

.1 Baptism
.2 Confirmation Church fellowship
.3 Eucharist Holy communion Sacrifice
.4 Holy orders Ordination See also 262.16 Ministry; 252.7 Sermons
.5 Marriage See also 173 Ethics of the family
.6 Penance Confession Absolution
.7 Extreme unction Viaticum
.8 Ministry of sick and ded: faith cure, healing, burial
.9 Consecration Dedication See 262.16 Ordination; 252.7 Sermons

266 Missions: home and foren

Subdivided by churches, like 280. See also 269 Parish missions; 377.6 Missionary schools

Missions in special countries or places covering the work of several sects go under the geograficly divided Religious history 274–279. The mission of a single sect in a special country or place goes with the history of the sect in 282–289

267 Associations

General societies demanding of members activ personal work. For local societies, see 256. For Bible, tract, and similar general societies see 206

.1 **Religious societies of both men and women**

.11 U. S. Christian commission

.15 Salvation army

267.2 **Religious societies of men**

For Y. M. C. A. see 267.3; missionary societies, 266; ministerial education societies 207; Bible societies, 206

.21 17th century or earlier } May be divided by countries like 940–99

.22 18th century

.23 19th century; interdenominational and undenominational

.231 In educational institutions

Divided like 940–99. If preferd, cancel .231 and put all together in .234–9. For work of Y. M. C. A. see 267.361

.232 Nasmith societies

.233 Young men's Christian unions; i. e. not "evangelic," etc.

.234–.239 Others Divided like 940–99

.24 19th century; denominational

.241 In educational institutions

Divided like 282–289. If preferd, cancel .241 and put all together in .242–9. For work of Y. M. C. A. see 267.361

.242–.249 Others Divided like 282–289

.3 **Young Men's Christian associations**

Activ membership confined to members of "evangelic" chur hes

To shorten the number, X may be used for 267.3 thruout; i. e. X 19 would mean "Work in small towns"

.31 **Objects, field and extension**

.311 Need and objects

.312 Limits: for and by young men and distinctivly religious

.313 Relation to the church

.314 International work

.315 National work

.316 State work

.317 District work

.318 Work in towns able to support a general secretary

.319 Work in small towns

} Methods only. For history, reports and periodicals see 267.39; for secretaries see 267.341

.32 **Bildings** See also library bildings 022

.321 Location Provision for growth

.322 Materials and protection against fire

.323 Plans Number, size and arrangement of rooms

.324 Reception, social rooms and parlors

.325 Library Reading, lecture, and class rooms See 022

.326 Administration and special rooms Boys' rooms

.327 Physical culture rooms

.328 Lighting, heating, and ventilation

.329 Fixtures, furniture, and fittings

267.33 **Organization**
- .331 Incorporation Constitution and bylaws
- .332 Branches and suborganizations Including women's work for young men
- .333 Managers Offisers serving without pay
  - 1 Trustees (in charge of real estate)
  - 2 Directors
  - 3 President
  - 4 Treasurer
  - 5 Recording secretary
  - 6 Executiv or corresponding secretary
- .334 Standing committees
  - 1 Importance; enlistment and composition
  - 2 Principles and methods of organization
  - 3 Names and duties See also Department work, 267.35
- .335 Membership
  - 1 Membership committee
  - 2 Classes of membership
  - 3 Securing and retaining members
  - 4 Development of activ members
  - 5 Associate membership and its relations

    For members' meeting see Social work, 267.3544
- .34 **Salaried offisers: duties, qualifications, training**
- .341 General secretary and assistants

  Including international and state secretaries. See also 267.314-.316
  - 1 Offis and work
  - 2 Qualifications
  - 3 Relationship
    - 31 To churches and pastors
    - 32 To offisers, directors, and committees
    - 33 To other employees
    - 34 To the members
    - 35 To the religious work
    - 36 To the business community
    - 37 To fellow secretaries
  - 4 Personal hints
    - 41 Considering a call and beginning work
    - 42 Spiritual and intellectual growth and helth
    - 43 Offis work, system, and economy
    - 44 Personal appearance and conversation
    - 45 Ladies' company
    - 46 "Secretarialism"
- .342 Librarian and assistants

  May be divided like 267.341. See also Library administration, 025 and 267.3532
- .343 Physical director and assistants

  May be divided like 267.341. See also 267.355 and 613.7
- .344 Other salaried offisers
- .345 Training; need and methods, demand and supply
- .346 Training schools
- .347 Training by apprentisship
- .348 Institutes } Methods only; for reports see 267.39
- .349 Conferences }

267.35 **Local work by departments**
.351 Business department
1 Finance committee
2 Annual budget
3 Endowments and other sources of income
4 Solicitation, collection and disbursement
5 Financial bookkeeping
6 Debt, taxes, etc.
7 Records and statistics
8 Advertizing, including anniversaries and parlor conferences
9 Printed matter Including bulletin, prospectus, etc.
.352 Religious department
1 Committees
2 Individual Bible study Methods and helps
3 Bible classes
4 Training classes Personal work
5 Bible readings Song servises
6 Evangelistic meetings
7 Social religious meetings
8 Other meetings in the rooms
9 Work outside the rooms
In public institutions, sermons to young men, distribution of religious papers, invitations, etc.
.353 Educational department
1 Committees
2 Library See 267.342 and 025
3 Reading room
4 Classes
5 Lectures and talks
6 Literary societies
.354 Social department
1 Committees
2 Reception committee
3 Social rooms and fittings See 267.32
4 Receptions Socials Entertainments
5 Music
6 Amusements Including games of skill See also 794
.355 Physical department
1 Committees
2 Aim and benefit of department
For Physical director see 267.343; Equipment, methods, etc. 613.7
.356 Information, relief, etc. department
1 Boarding house bureaus
2 Employment bureau
3 Savings bureau
4 Visitation of sick
5 Destitute young men
.357 Boys department
1 Committees
2 Religious work
3 Educational work
4 Social work
5 Physical work
6 Information, relief, etc.
.358
.359 Janitor's department: bilding; care, cleaning, safety Police

267.36 **Work among special classes**
Y. M. C. A. only; other religious societies of men go in 267.2
.361 College and school
1 History and methods in general
2 International reports Including Northfield meetings
3 International periodicals
For state and sectional reports and periodicals see 267.39
.362 Railroad employees
1 History and methods in general
2 International reports
.363 Commercial travelers
.364 Foren-speaking
Divided like 400; e. g. 3 German, 4 French, 5 Italian, etc.
.365 Negroes
.366 American Indians
.367 Soldiers U. S. Christian commission, 267.11
.368 Sailors
.369 Other Policemen, firemen, fishermen, lumbermen, mutes, etc.
.39 **History, reports, periodicals, etc.** For methods see 267.314–.319
.391 International history
.392 International reports, etc.
1 Reports
2 Other pamflets
} Reports, etc. of international college and railroad work go in 267.361–.362
.393 International periodicals International college periodicals, 267.3613
.394–.399 Special countries Divided like 940–999

.4 **Religious societies of women**
.41
.42
.43 19th century; interdenominational and undenominational
.431
.432 Women's Christian associations
Divided like 267.3. To shorten the number, W may be used for 267.432 thruout; e. g. W 1 would mean 'Objects, field and extension'
.433 King's daughters
.44 19th century; denominational Divided like 282–289

.5 **Young Women's Christian associations**
Activ membership confined to members of 'evangelic' churches
Divided like 267.3–.399
To shorten the number Y may be used for 267.5; e. g. Y3, Organization, insted of 267.53

.6 **Religious societies of young people** For Sunday schools see 268
.61 Interdenominational and undenominational
.613 **Young people's society of Christian endevor**
1 Reports, etc.
2 Periodicals
.62 Denominational Divided like 282–289

.7 **Religious societies of boys** Not Y. M. C. A. Divided like 267.6

.8 **Religious societies of girls** Not Y. W. C. A. Divided like 267.6

268 Sunday schools

269 Revivals Retreats Parish missions

270 Religious history

Ancient period: to conversion of Germans

See 281.1–281.4, for collected works of early theologic writers, etc. 270 is for religious history of these *periods*

For religious history of special countries, either general or for special periods, see country divisions, 274–279; e. g. English reformation, 274.2

.1 **Apostolic Nativity to Constantine**

.2 **Period of ecumenic councils Centralization A. D. 325–787**

The Greek church acknowledges these 7 councils as really Ecumenic. Anglicans generally recognize only the first 6. See also 262.5 Polity

.21	First of Nice	A. D. 325
.22	First of Constantinople	381
.23	First of Ephesus	431
.24	Chalcedon	451
.25	Second of Constantinople	553
.26	Third of Constantinople	680–81
.27	Second of Nice	787

Medieval period: Charlemagne to Luther

270.3 **Charlemagne Papacy vs empire A. D. 787–1054**

Church planted among the Germans. Feudalism. Great schism, east *vs* west, 1054

.4 **Hildebrand Roman supremacy A. D. 1054–1200**

Temporal power. Scholasticism. First 3 crusades

.5 **Later medieval Renaissance A. D. 1200–1517**

Innocent 3. Papal schism. Avignon. Nominalism *vs* realism. Greek church under Moslems. Education. Arts. Inventions. Pre-reformation

Modern period: Reformation to present

.6 **Reformation Counter reformation A. D. 1517–1648**

Council of Trent, A. D. 1545–63. Diet of Augsburg. Luther. Melancthon. Calvin. Knox. Religious wars. Jesuit missions in east. See also reformation in England, etc. 274.2

.7 **Peace of Westphalia to French revolution A. D. 1648–1789**

Union of church and state. Deism. Materialism

.8 **Modern Rationalistic A. D. 1789–**

Holy alliance. Greek church in Russia. Atheism. Pantheism. Protestant missions

271 Monastic orders Monasteries

Including monasticism and monastic foundations

See also 255 Brotherhoods; 726.7 Architecture of monasteries, etc.

.1	**Benedictines**	founded	A. D.	529
.12	Cistercians	"	"	1098
.125	Trappists	"	"	1150
.2	**Dominicans**	"	"	1170
.3	**Franciscans**	"	"	1182
.36	Capuchins	"	"	1525
.4	**Augustinians**	"	"	1256
.5	**Jesuits**	"	"	1540

271.6 **Passionists, 1720 Redemptorists, 1732**
.7 **Lesser Roman orders**
.71 Carthusians, founded A. D. 1086
.73 Carmelites 12th century
.75 Sulpicians, 1642
.76 Oblates
.77 Lazarists, 1624
.78 Christian Brothers, 18th century De la Salle
.79 Other lesser Roman orders
.8 **Anglican brotherhoods**
.9 **Sisterhoods**
.91 Sisters of Charity Vincent de Paul founded A. D. 1629
.92 Sisters of Mercy Augustinian " " 1831
.93 Ladies of the Sacred Heart Jesuit " " 1800
.94 Sœurs de bon Secours Nurses
.95 Little Sisters of the Poor
.96 Contemplativ Cloisterd nuns
.97 Other Roman sisterhoods
.971 Carmelites
.972 Second of St Dominic
.973 Franciscans
.974 Ursulines A. D. 1537
.975 Of the Visitation " 1610
.976 Of St Joseph " 1650
.977 Of the Presentation " 1777
.98 Anglican sisterhoods
.99 Other protestant orders Deaconesses (Kaiserwerth)

272 Persecutions

See also special sects, 280; and history of special countries, 940–999

.1 **Apostolic church by imperial Rome 1st–4th century**
.2 **Heretics by Inquisition or Holy Offis Since 1470**
.3 **Waldenses and Albigenses 11th–12th century**
By Roman church. See also 283.4, Protestant sects
.4 **Huguenots French protestants**
By Roman church. St Bartholomew, 1572. Edict of Nantes, 1598; revocation, 1685
See also 284.5 Protestant sects
.5 **Molinists and Quietists**
By Roman catholics. Close of 16th century to destruction of Port Royal, A. D. 1709. See also 273.7 Heresies
.6 **Marian Anglican reformers by Mary A. D. 1553–58**
.7 **Elizabethan Later 16th century**
Persecution of Roman church by Anglicans
.8 **Quakers Baptists Witches Later 17th century**
Persecutions by puritans. See also 133.4 Witchcraft
.9 **Other persecutions**

273 Heresies

For the history of special doctrins see 230–239, Doctrinal theology

.1 **Gnostic First 3 centuries**

Reaction of pantheism and heathen philosofy on Christianity. See also 189 1 Gnostic philosofy; 186.4 Neo-Platonism; 239.4 Apologetics

.2 **Manichæism Parsee dualism 3d century**

Opposition of good and evil. Mystic. Ascetic. See also 149.3 Mysticism; 248 Asceticism; 289.8 Shakers, Mystics

.3 **Sabellian**

That the Trinity is not of persons, but of successiv manifestations. About 250 A. D. Held by Schleiermacher, Bushnell, Swedenborg

.4 **Arian Denying divinity of Christ 4th century**

.5 **Pelagian 5th century**

Denying original sin and supernatural grace

.6 **Antinomian 16th century**

Denying force of law, under Gospel dispensation

.7 **Molinist and Jansenist Pietists A. D. 1580–1700**

Port Royal. Augustine's doctrin of grace *vs* the Roman doctrin of good works

.8 **Agnostic**

Denying possibility of revelation. Holding that theology and the supernatura lie outside the domain of human knowledge. See also 149.7 Philosofy; 211 Atheism; 239 Apologetics

.9 **Minor heresies**

274-279 General religious history by countries

274–279 is divided geograficly like 940–999

280 Christian churches and sects

281–289.8 may be subdivided where needed like 940–999

281 Primitiv and Oriental churches

See also 270.1–270.3, Early religious history

.1 **Apostolic church, to time of great schism, A. D. 1054**

Works of apostolic and Christian fathers here; use 270 for religious history of these periods. See also 229.9 Apocryphal books

.2 Primitiv apostolic, to end of first century

.3 Ante-Nicene, A. D. 100-325 See also 270.1

.4 Post-Nicene, A. D. 325–1054 See also 270.2–3

.5 **Oriental churches**

.6 Armenian

.7 Coptic

.8 Nestorian

.9 **Eastern or Greco-Russian or Holy orthodox church**

The great schism, mutual excommunication, A. D. 1054, separates the Catholic church into Eastern and Western churches, which from this time have separate histories

282 Western or Roman catholic church

Divided geograficly like 940–999

283 Anglican and American P. E. church

Divided geograficly, when needed, like 940–999; e. g. the Anglican church in Australia is 283.94; in India, 283.54

284 Continental protestant sects Protestantism

.1 **Lutheran Reformd** See also 285.7, Reformd church in America
German reformd church in United States

.2 **Calvinist Zwinglian** See 285, and 286.1

.3 **Hussites Anabaptists Leyden** See 286.1

.4 **Albigenses Waldenses Vaudois** See 272.3

.5 **Huguenots** See 272.4

.6 **Moravian**

.7 **Scandinavian Swedish**

.8 **Old catholic**
Here are classt those denying papal infallibility, or for other cause cut off from Rome, tho catholic in other respects

.9 **Other**

285 Presbyterian Reformd Congregational

Next 2 subdivisions are sectarian, not geografic

.1 **Presbyterian church in America**
Subdivided geografically; e. g. 285.173 Presbyterian church in United States, 285.175 Southern presbyterian church

.2 **Presbyterian church in Great Britain**

.3 **Cumberland presbyterian**

.4 **United presbyterian**

.5 **Reformd presbyterian**

.6 **Minor presbyterian sects**

.7 **Reformd (Dutch) church in America** e. g. 285.77471, in N. Y. city

.8 Congregational

.9 Puritanism

286 Baptist Immersionist

.1 **Calvinistic or Regular**
Including Arminian or general baptists, reunited with Calvinistic in 1891

.2 **Free wil**

.3 **Seventh day**

.4 **Old school (Primitiv, Antimission or Hardshel)**

.5 **Other baptist sects**
May be clast if preferd with any of the larger sects which they most closely resemble or of which they ar offshoots

.6 **Disciples (Campbellite or Christian)**

.7 **Adventists**

.9 **Other immersionists**

287 Methodist
.1 **Wesleyan methodist**
.2 **Calvinistic methodist**
.3 **Welsh Calvinistic methodist**
.4 **Primitiv methodist**
.5 **Primitiv Wesleyan**
.6 **Methodist episcopal**
.7 **Methodist protestant**
.8 **African methodist**
.9 **Minor methodist sects**

288 Unitarian See also 273.4

289 Other Christian sects
.1 **Universalist**
.2
.3
.4 **New church or Swedenborgian**
.5 **Christian science**
.6 **Quaker Friends Hicksites**
.7 **Mennonite**
.8 **Shaker Mystic** For Mystic heresy see 273.2
.9 **Minor Christian sects**

290 Ethnic and other religions

Including comparativ religion and general histories of religion where an equal or minor place is given to Christianity

291 Comparativ and general mythology
292 **Greek and Roman mythology**
293 **Teutonic and Northern mythology**

294 Brahmanism Buddhism
For other Indic religions, see 299.11. See also 891.2 Sanskrit literature; 177.5 Caste

295 Parseeism Zend Avesta
For other Iranic religions, see 299.15. See also 891.52 Zend literature

296 Judaism For other Semitic religions, see 299.2

297 Moha medanism

298 Mormonism See also 173.2 Polygamy

299 Minor nonchristian religions
Subdivided ethnicly like 491–499; e. g. Egyptian religion, 299.31; Afghani religion, 299.158

Sociology

300 Sociology in general

301-309 all have Sociology in general as their subject, but it is treated in these various forms. A periodical on Education is 370.5, not 305, which is only for periodicals on Sociology in general. In Sociology, most works in these forms are limited to one division; e. g. to Political economy, Education, Law, etc. All these have the same subdivision of General works; i. e. essays on the various divisions are 310.4, 320.4, 330.4, and so on to essays on Manners and Customs in general, 390.4. (A naught in any class number show. the subject to be general, not specific)

301 Philosofy, theories
See also 901 Philosofy of history; 320.1 Theory of state

302 Compends, outlines

303 Dictionaries, cyclopedias, etc.

304 Essays, lectures, addresses

305 Periodicals, magazines, reviews

306 Societies: transactions, reports

307 Education: teaching, study, etc. See also 370

308 Polygrafy: collected works, extracts, etc.
Put here collected works of statesmen; e. g. works of Adams, Jefferson, etc.

309 History of social science

.1 Social surveys
Divided like 940-999 Better clast by general libraries in 914-919

310 Statistics

311 Theory, methods Science of statistics
Principles of tabulation, grafic charts, etc. Methods of gathering data

312 Population (progress of) Vital statistics: births, deths, mortality, longevity
See also 614.1 Registration and vital statistics
Statistics are divided geograficly like 930-999; e. g. Population of Maine 312.741

313 Special topics

314-319 General statistics Divided geograficly like 940-999
The statistics of any special matter are put with the subject, e. g. of Domestic animals in 636, of Shorthand in 653, of French novels in 843, of Theaters in 792, etc. Statistics too general to be included in any topic are divided by countries. Statistics of New York city would be 317.471, but the statistics of Medicin in New York would be put with 610, Medicin; i. e. the topic outranks the locality

320 Political science

.1 **Theory**
.11 Origin of the state
.12 Nation and territory
.121 Ethnografic
People of same race comprise the nation
.124 Geografic
Unity of territory
.126 Expansion Acquisition of territory
1 **By discovery**
3 " **occupation and possession**
5 " **cession Annexation**
7 " **purchase or exchange**
9 " **conquest or revolution**
.127 Alienation of territory
.128 Frontiers Boundaries
1 **Natural boundaries**
2 Mountains
4 Rivers
6 Lakes
8 Coast
9 **Artificial boundaries**
.15 Nature, entity, concept of the state
.151 Juridic theory
.152 Political theory
.153 Social and evolutionary theories
.154 The state as a moral organism
.157 Soverenty
See also 341 International law
.158 Allegiance Loyalty, etc. Patriotism
See also state ethics 172.1 Duties of citizens
.159 National growth and decay
.18 Symbolism, emblems: arms, flag, seal, etc.
Better clast in 929.8 and 929.9
.2 **Compends, statecraft**
.3 **Dictionaries**
.4 **Essays**
.5 **Periodicals**
.6 **Societies**
.7 **Education**
.8 **Polygrafy**
.9 **History of political science,** divided like 930–999

321 Form of state

.01 **Simple state Soveren state**
.02 **Mixt state**
.021 Federal state Bundestaat Federation
.022 Confederation of states Staatenbund
Union of soveren states Alliance
.023 Suzerain states
.025 Semisoveren, dependent and vassal states
.026 Mediatized state
.027 Protected state
Protectorates, spheres of influence
.028 Vassal states
.03 **Empire, imperialism**
.04 **World state**
.041 Internationalism

321.07 **Ideal state Utopias**
See also 335 Communism and socialism
.09 **Change of form of state**
.092 Revolution
.094 Coups d'état
.1 **Family Patriarchal age**
.2 **Tribes Clans Marks Village communities**
See also 333.2 Community ownership of land
.3 **Feudalism**
.4 **Democracy** Pure; e. g. Athens, town meeting
.5 **Aristocracy** e. g. Italian republic; medieval German cities
.6 **Absolute monarchy**
.7 **Constitutional monarchy**
.8 **Republic** Modern democracy, delegated powers

322 Church and state See also 172.3, State ethics; 261.7, The church
Political aspects of combination or separation of state and church affairs

323 Internal relations with groups and individuals
.1 **Movement and questions of nationalities, races and languages**
Divided by country like 930–999; e. g. struggle of nationalities in Austria 323.1436
For emigrant nationalities in a country see 325
.2 **Political struggles and troubles**
Revolutions, revolts; riots, uprisings. See also 321.09
.3 **The state and social groups**
Classes, orders, estates
.31 Nobility, aristocracy; welthy class
.32 Middle class, bourgeoisie
.33 Proletariat, laboring classes, pesantry
See also political economy, 331.8 Laboring classes
.34 Serfs Villenage See 326.3 Serfs and serfdom
.4 **The state and the individual**
Natural rights, individual rights, individualism
.41 Equality of individuals, races, etc.
.42 Equality before the law; justis, etc.
.43 Life
.44 Liberty
.441 Freedom of action
.442 " " conscience
.443 " " speech
.444 **Academic freedom** See 378.121 Freedom of teaching
.445 Freedom of the press
See also journalism 070.13; administration 351.751
.446 Freedom of drama
.447 " " art
.45 Family
.46 Property

323.47 Right of assemb'y, association
.48 Right of petition
.49 Limitation and suspension of individual rights and guaranties
.491 Martial law
.492 State of siege
.6 Citizenship
.61 Laws Divided by country like 930–999
.62 Naturalization
.63 Alien races and citizenship
.64 Loss and restoration of citizenship
.65 Duties and obligations of citizens
Scholar as citizen
.67 Rights of aliens
.68 Eligibility to offis

324 Suffrage

.1 Qualifications, conditions and bases
.11 Age
For sex see 324.3 Woman suffrage
.13 Property
Household suffrage
.14 Education Competency Capacity
.15 Nationality Race Religion
.16 Residence, domicil
Length of residence
.162 Voting by soldiers
.164 " " students
.17 Exclusion from and suspension of suffrage
.171 Incompetency, incapacity
Insane, idiots See also 324.14
.172 Bankruptcy
.173 Pauperism
.174 Conviction of crime; bribery, selling vote
.177 Government servis
Military servis: soldiers and sailors
Civil servis, police offisers
.178 Other special classes
Students, domestic servants, etc.
.2 Forms of suffrage Systems Voting, etc.
.21 Electoral systems
.211 Universal suffrage
.212 Partial suffrage, limited
.213 Plural vote
.214 Class vote, class system
.215 Compulsory voting
.216 Short ballot
Aiming to reduce number of electiv offises

324.22 Constituencies and representation of interests
.221 Single member constituency
Scrutin d'arrondissement
.222 Multimember constituency
Scrutin de liste, block vote, general ticket
.223 Minority representation
Single vote, limited vote, cumulativ vote, proxy system
.224 Proportional representation
Preferential: alternativ, contingent, transferable vote. Quota: simple, Droop, d'Hondt, substitute or Gove method. Graduated system. List system. For second ballot see 324.248
.227 Economic and social groups
.23 Selection of candidates
Declaration and presentation of candidacy
.231 Nomination of candidate
.233 Party organization Conferences
.235 Caucus primary
.237 Direct "
.239 Platform
.24 Voting procedure
.241 Electoral lists: formation, revision
.242 **Registration system**
Poll lists and tally sheets
.243 **Jurisdiction Examination of credentials**
Appeal, petition
.244 Open voting
.245 Secret ballot
.246 Voting place
.247 Absent voting Voting by mail
Traveling salesmen, railway employees, mail clerks, etc.
.248 Second ballot
.249 Indirect voting Electoral college
.25 Ballot
.251 **Unofficial**
.252 **Official**
.253 **Party ballots**
.254 **Blanket ballots**
.255 Party colums
.256 Offis groups Australian ballot
.257
.258 **Voting machines**
.26 Results and announcements
Inspectors of election, meeting, etc.
.261 Count of ballot
.262 Majority elects Absolute majority
.263 Plurality " Relativ majority
.268 Announcement of vote

324.27 Corruption Electoral fraud
.271 Bribery and undue influence: intimidation, selling votes
.272 Fraud in voting: personation, repeating, illegal voting, colonizing
.273 Election contributions and expenditures
Limitations on expenditures; publicity. Restriction on contributions, political assessments
.274
.275 Fraud in counting
Miscount of ballots; certification of false returns
.276
.277 Election contests
28 Suffrage reform
.3 **Woman suffrage**
.4-.9 **Suffrage by country**
Divided like 940-999

325 Colonies and immigration

.1 **Immigrants** See also 323.6 Citizenship
.2 **Emigrants**
Divided by country of origin like 930-999. This brings together material on emigrants of a special country or race; e, g, Chinese emigrants 325.251. Material on emigrants is usually most important in respect to country of origin, so is best clast in 325.2. Most libraries will have little except on immigrants to their own country, hence in United States 325.2 will relate almost wholly to specific nationalities in United States; e. g. 325.26 Negro question
.3 **Colonization**
Divided by mother country like 930-999; e. g. 325.342 British colonies. This brings together colonies planted by a special country, but does not specify location of colony
.4-.9 **In special countries**
Divided ike 940-999, by country in which planted; e. g. 325.73. Foren population of United States. See note to 325.2 for a given nationality

326 Slavery See also 973.7 Civil war; 371.974 Education of freedmen

.1 **Slave trade**
.2 **Coolies and contract slaves**
.3 **Serfs and serfdom**
.4 **Antislavery documents**
.5 " **periodicals**
.6 " **societies**
.7 **Proslavery**
.8 **Emancipation and freedom**
.9 **History of slavery** Divided geograficly like 930-999
.92 Biografy of slaves

327 Foren relations Divided geograficly like 930-999

328 Legislation, lawmaking

Legislativ bodies and annals
.1 **Parliamentary law**

328.2 Legislation

.21 Interpretation of law

.22 Uniform laws

Uniformity of law on same subject in different states or countries

.23 Codification

.24 Policy Tendencies

.241 Overlegislation

.243 Special legislation For private and local bills see 328.378

.25 Legislativ powers

.251 Juridic "

.252 Executiv "

.253 Implied "

.256 Restrictions and checks on legislation See also 328.349

.26 Direct legislation

.261 Initiativ

Voters by petition originate legislation

.264 Referendum

.27–.29 Subjects of legislativ action Divided like 351.7–351.9

.3 Legislatures

Summary

328.3	**Legislatures**
.31	Upper house
.32	Lower "
.33	Membership Election
.34	Prerogativs and powers
.35	Sessions
.36	Internal organization and disciplin
.37	Legislativ procedure
.39	Form of legislature

.31 Upper house

.32 Lower "

.33 Membership Election

.331 Conditions of membership, eligibility

Age, residence, property Membership without voting power

.332 Exofficio members

1 Cabinet and government offisers

2 Expresidents

3 Other exoffisers

4 Clergy, bishops

.333 Compensation

Annual salaries, per diem payment. Milage, traveling expenses. Special sessions. See also 328.347 Privileges

.334 Representation

1 **of states**

2 **territories**

3 **colonies and dependencies**

4 **classes**

Universities, landowners, Irish and Scotch peers

5 **of election districts Apportionment**

Equalization of representation; unfair apportionment; 'rotten boros' reapportionment

6 **Gerrymandering**

9 **Number of members**

328.335 Methods of appointment Election
1 **Appointment by government or crown**
For life or for a term
2 **Hereditary right**
3
4
5 **Election by direct vote: plurality or majority**
6 **Length of term**
Entire or partial renewal of membership; holdover member
7 **Vacancies, resignations**
Method of filling vacancies; special elections
8 **Contested elections**
.338 Official membership lists, directories
.339 Unofficial lists or directories
.34 Prerogativs and powers Restrictions
.341 Power over revenue and appropriation
.342 " to judge of elections
.343 " over members
Power to investigate or punish members
.344 Power of expulsion
.345 " over government offisers
Power of investigation for impeachment, see 351.96–.99
" to imprison citizens
.346 Treatymaking power
.347 Privileges
Franking privilege, postage and stationery; railroad passes; free distribution of books
.348 Immunities
From arrest
.349 Restriction
Offisholding Instructions by electors
Direct mandate See also 328.26 Direct legislation
.35 Sessions
.351 Method of summoning
Parliamentary writ
.352 Date of session
Fixt or movable
.353 Frequency of sessions
Annual, biennial, quadrennial
.354 Length of session Life of legislature
.355 Recess
.356 Adjournment Prorogation Dissolution
.357 Executiv session: procedure
.358 Special session Extra session

328.36 Internal organization and disciplin
Verification of powers, credentials
.361 Oath of offis
.362 Offisers: appointment, election
1 **Presiding offiser, speaker**
2 **President protem**
3 **Secretaries, clerks**
Bill clerk Enrolling, engrossing clerks
4 **Sergeant at arms**
5 **Pages, messengers, door keepers**
6 **Payment of employees: gratuities, fees, extra pay**
Unnecessary attendants
7 **Committees**
Standing, special, joint
8 **Special commissions**
For investigation, not administrativ commissions
.363 Records
.364 Supplies: daily papers, postage stamps
Telegraf and telefone bills
.365
.366 Disciplin: suspension, investigation
.367 Bribery Illegal practises
Graft bills, blackmail
.368 Lobbying
Including that by heds of depts and institutions
.37 Legislativ procedure
.371 Rules, manuals
See 8 under 328.4–.9 divided by country
.372 Petition, addresses
Parliamentary inquiries, commissions
Recommendations from executiv
.373 Bills
Technic: bill drafting, introduction
Printing, enrolling, engrossing
.374 **Action by legislature before passage**
1 Readings: 1st, 2d
2 Reference to committees
Committee work or procedure: investigation, hearings, conferences
3 3d reading
4 Contest over passage
5 Party caucuses, logrolling
.375 **Final passage**
Rules committee, 'lifting' committee, 'steering' committee
Vote: viva voce, by roll call; by ballot; obligation of voting in person, pairing
Required majority. Veto, see 353.03
Passing over veto. Bills left in hands of executiv: 30 day bills, pocket veto
Bills which become law without executiv action
.376 **Special bills**
Financial, omnibus riders
.377 Joint resolutions
.378 Local and private legislation
.379 Procedure in special cases
1 **Impeachment**

328.39 Form of legislature
.391 One chamber
.392 Two chambers
See also 328.31 Upper chamber; 328.32 Lower chamber
.393 Other forms
.394 Reform
.395 Abolition
.4–.9 Of special countries
Divided by countries like 940–999, and under each, works may be divided:
1 Jurnals 3 Abstracts 5 Rules 9 History of bodies
2 Debates 4 Documents 8 Legislativ manuals

329 Political parties Party conventions

329.01 U. S. presidential campain documents of all parties, arranged by campains

.1 Federal
.2 Anti-Federal
.3 Democratic
.4 Whig
.5 American Knownothing
.6 Republican
.7
.8 Minor parties
.81 Prohibition, see also 178.5 Ethics; .82 Greenback, see also 332.5, Paper money; .83 Woman suffrage, see also 324.3 Woman suffrage; .84 People's; .85 Labor see also 331.8 Laboring classes
.9 Parties in other countries Divided geograficly like 940–999

330 Economics Political economy

.1 **Theory**
.11 General conception Nature and character
Definition Limits and extent
.12 Classification Divisions
.13 Importance Utility
.14 Language, terminology, symbols, abbreviations
.15 Scientific systems
.151 Mercantil system
.152 Physiocrats
.153 Laissez faire
.154 Historic school
.19 Relations to other classes
Divided like the Classification
.1917 to ethics
.1932 " politics
.198 " literature
.2 **Compends**
.3 **Dictionaries**
.4 **Essays**
.5 **Periodicals**
.6 **Societies**
.7 **Study and teaching**
.8 **Polygrafy**
.9 **History**
.90 By periods
.901 Primitiv -476 A. D.
.902 Medieval 476–1500 A. D.
.903 Modern 1501–1900 A. D.
.904 20th century
.92 Biografy
Preferably class in 923.3
.93–.99 History divided by country like 930–999

331 Labor and laborers Employers Capital

.01 **Theory**
.011 Freedom of labor
.012
.013 Importance, utility, dignity of labor
.015 Psychology of labor
See 150 Psychology
.02 **Compends**
.03 **Dictionaries**
.04 **Essays, addresses**
.05 **Periodicals**
.06 **Societies, bureaus, etc.**
.061 Government departments, bureaus
.062
.07 **Education Exhibitions**
See also 371.42, 607, and education in special subjects
.08 **Collected works**
.09 **History**

331.1 **Relations of capital to labor**
Industrial arbitration. Disciplin: deductions, stoppage, fines
.2 **Remuneration for work**
Wages, hire, pay, salary, fees
.21 General
.211 Statistical theory
.212 Wage fund
.213 Relation of wages to production
.214 " " " " cost of living Living wage
.215 Minimum wage
.22 Wage scales: scale contracts, sliding scale
.225 Extra pay
Extra wages, efficiency bonus, subsidies, bounties; progressiv wage. For deductions, stoppage, fines, etc. see 331.1
.23 Bases of wages and methods of payment
.231 By work done
Job, task, piece. For farming out, sweting system, see 331.236
.232 By time: hour, day, week, month, year
.235 Methods of payment
Truck system, store orders, shares, payment in kind
.236 Intervention of middleman
Subcontract, sweting system, commissions
.238 Payment by other then employer: fees, tips, etc.
.24 Profitsharing
.25 Pensions Insurance
Old age, sickness, accident
.26 State and wages
.261 Legislation Laws
.262 Wages for state labor
.27 Professional remuneration
.28 Wages divided by trade
.29 " " " country
.3 **Labor of children** See also 179.2 Cruelty to children
.4 **Labor of women** See also 396.5 Woman
.5 **Work at reduced wages**
.51 Prisons Convict labor
See also 365 Prisons
.52
.53 Convents Ouvroirs (workshops)
Ouvroirs are charity workshops paying beneficiaries nominal wages and marketing products at prices so small as to lower wages of selfsupporting workers
.54 Contract labor
.55 Apprentis labor
See also 331.86 Training, apprentisship
.56 Peonage
.57 Compulsory labor Corvée
.58 Slave labor
See also 326 Slavery
.6 **Pauper labor** **Cheap foren labor** **Chinese**
See also 339 Pauperism; 362.5 Asylums

331.7 Skild and unskild labor

.8 Laboring classes

.81 Duration of work Rest

.811 Length of day

8-hour day, 10-hour day, etc. Shifts of work

.812 Night work

.813 Sunday work

.814 Overtime Supplementary hours

.815

.816 Vacation Leave of absence

.817 Holidays

Weekly rest, Sundays, labor festivals, May 1, festivals of patron saints

.818 In special trades

.819 " " countries

.82 Places of labor Dangers

See also 613.6 Hygiene; 622.8 Mining; 614.8 Protection of life

.83 Food Clothes Shelter See also 640 Domestic economy

.84 Morals and habits: thrift, temperance, amusements, temptations

See also 170 Ethics; 790 Amusements; 263.6 Sunday

.85 Helps: lectures, libraries, reading rooms, etc.

Social settlements See also 374.5 Home education; 020 Libraries; 263.7 Sunday

.86 Training Apprentisship

.87 Organization of labor

.88 Trade unions and other labor societies

See also 338.6 Gilds

.89 Strikes

Combinations of workmen. Retaliation by employers

.891 Attacks on freedom of work

Picketing; methods of intimidation; scabs

.892 Sympathetic strikes

.893 Boycotting

.894 Blacklisting Laying under interdict

.895 Lockouts

332 Private finance

.1 Banks and banking

See also 334.2 Cooperativ banks

.11 National Federal reserv

.12 State

.13 Private

.14 Trust companies

.15 Foren

.2 Savings banks

Postal savings banks. See also 383

332.3 Loan institutes and special loans
.31 Credit institutes
.311 **Agricultural banks and credits**
See also 631.16
.312 **Manufacturers credits**
.313 **Loans on chattel mortgages**
.314 " " **salaries**
.315 " " **wages**
.32 Bilding associations See 334.1 Cooperation
.33 Monts de piété Governmental
.34 Pawn shops Private
.4 **Money Coins and coinage**
.41 Coinage metals: production and value; gold, silver, nickel, copper
.42 Single and double standard
.43 International standards
.44 Monetary congresses
.45 Comparativ value of moneys
.46 Mints
.47 Coinage laws
.48
.49 In special countries Divided geograficly like 940–999
History, reports and laws
.5 Paper money Public and private notes See also 329.82
.6 **Stocks and stock exchanges Bonds**
.7 **Credit Credit system**
.8 **Interest and usury** See also 336.31 Public securities
.9 **Counterfiting Forging** See 343 Criminal law

333 Land: ownership, rights, and rent

For other relations see Land in Relativ index following Tables
.09 Special countries, divided like 930–999
.1 **State ownership**
.2 **Community ownership**
See also 321.2 Village communities
.3 **Private ownership**
.4 Absentee owners Alien owners
.5 **Rent of land for cultivation**
Class here general works on rent
.6 **Rent of land for bilding**
.7 **Special classes of land: forests, pasture, waste**
.8 Mines
.9 **Water rights: litoral, riparian, irrigation**

334 Cooperation

.1 **Bilding societies: loans, organization** See also 332.32
.2 **Cooperativ banks** See also 332 Banks
.3 " **insurance societies** See also 368 Insurance
.4 " **housekeeping** See also 647.93 Domestic economy
.5 " **consumptiv associations** **Stores**
.6 " **productiv associations** **Factories**
.7 **Friendly societies**
.8 **Burial societies**

335 Socialism and communism

See also 334 Cooperation
.01 Theory of property

.1 **English socialism**
.2 **Saint Simonism**
.3 **Fourierism**
.4 **Communism**
.5 **German socialism** **Social democracy**
.6 **State socialism** **Socialism of the chair**
Professorial socialism
.7 **Christian socialism**
.8
.9 **Socialist communities**
Divided by countries like 930–999

336 Public finance

Federal and state. For local finances see 352.1

.1 **State domain and properties**
.11 Management and income from rents
.12 Sale
.13 Land claims
.14 Land grants to railroads, colleges, etc.
See also 379.123 Education
.19 State monopolies
e. g. French state monopoly of tobacco trade. See also 338.8 Monopolies
.2 **Taxation**
.21 Direct
.22 Real estate
.23 Personal property
.24 Income
.25 Poll
.26 Customs: specific or ad valorem
Regulations. Schedules of duties. See also 337 Protection
.27 Excise, licenses, special taxes
Liquor, dog, legacies, stamp duties
For other relations see License in Relativ index following Tables
.28 Local taxes See also 379.13 School funds
.29 Assessment and collection of taxes Exemptions

336.3 **Loans Public securities**
.31 Interest-bearing securities See also 332.8 Interest
.32 Floating det
.33 Sinking fund
.34 Public credit
.35 Annuities
.36 Repudiation
.4–.9 **Finance of special countries** Divided geograficly like 940–999

337 Protection and free trade

See also 336.26 Customs

.1 **Absolute free trade No tarif**
.2 **Free trade: i. e. tarif for revenue only**
.3 **Protection**
Class in 337.2 discussions or histories which are arguments for free trade
When doutful prefer 337.3, the general number for discussions
.4 **Subsidies**
.5 **Duties on special articles: steel, wool, etc.**
.6 " " **raw materials**
.7 " " **books and works of art**
.8 **Duty free importation for colleges, etc.**
See also 021.861 Libraries
.9 **Reciprocity**

338 Production Manufacture Prices

.1 **Agricultural products**
.2 **Mining products** See also 332.41 Coinage metals
.3 **Water " Fish, ice, etc.**
.4 **Manufactured products Machinery in industry**
.5 **Prices**
.6 **Gilds** See also 331.88 Trades unions
.7 **Corporate industries**
.8 **Monopolies Trusts** See also 336.19 State monopolies
.9 **Industrial legislation** Divided geograficly like 940–999

339 Consumption of welth Pauperism

Conservation; restrictions on use or waste of materials and natural resources
See also Pauper, Pauperism, Welth, in Relativ index following Tables

340 Law

General works Most periodicals belong in Private law, 347.05

.1 **Philosofy Theories Law of nature**
.3 **Antiquities: torture, trial by ordeal, duel, etc.**
.4 **Trial by jury**
.5 **Comparativ legislation**
.6 **Medical jurisprudence** See also 614.23 Expert testimony
.7 **Education Law school Offis training**
.8 **Polygrafy Collections**
.9 **Legal anecdotes and miscellany**

Public law

341 International law

.01 Philosofy; .02 Compends, etc. like 300

.1 **International congresses**

Of diplomatic agents for settling international relations; Hague tribunal, Leag of Nations. Congresses on special topics go with their subjects; e. g. 332.44 on Coinage

.2 **Treaties: texts and history**

Class with most important country, dividing like 940–999

.3 **Law of war Captivs Neutrals**

.4 **International criminal law**

.5 **International private law**

.6 **Arbitration**

.7 **Diplomacy**

.8 **Consular systems**

342 Constitutional law and history

Divided by countries like 930–999. Under each, works may be divided: 1 Texts of constitution; 2 Conventions; 3 Systems, commentaries; 4 Essays; 8 Polygrafy; 9 History

For Administrativ law, see 350

343 Criminal law

.1 **Criminal trials**

.2 **Punishments**

Corporal. Deth penalty. Hard labor. Confinement

.3–.9 **Of special countries** Divided by countries like 930–999

Under each country, works may be divided: 1 Penal codes; 2 Reports; 3 Criminal procedure; 4 Text books and manuals

344 Martial law

Private law

345 United States statutes and cases

Divide each of the sections .1–.5, using 1 U. S.; 2 Individual states arranged alfabeticly: e. g. Statutes at large of U. S. 345.11; Acts and resolvs of Mass. 345.12

.1 **Session laws**

.2 **Codes Revised statutes**

.3 **Law digests (of statutes)**

.4 **Reports**

Use .4 U. S. supreme court; .41 U. S. circuit and district courts; .415 Periodical collections of various states; e. g. Eastern Reporter, etc; .42 Reports of individual states

.5 **Digests of cases**

346 British statutes and cases

Divided like 345. Includes all reports in English language except U. S. reports

347 Treatises American and English private law

.01 Philosofy .02 Compends .03 Dictionaries .04 Essays .05 Periodicals .06 Societies, bar associations .08 Polygrafy .09 History

Put law of special topics with the subject; e. g. Insurance law, 368. The divisions .1–.8 may be disregarded and all English law textbooks arranged in one alfabet by authors. An elaborate division, similar to Medicin, will be publisht after farther revision

.1 Persons Legal capacity

.2 Realty

.3 Chattels Movables

.4 Contracts

.5 Torts

.6 Family law and inheritance

.7 Commercial and maritime

.8 Equity

.9 Civil trials Procedure

.91 Civil trials

.92 Pleading

.93 Forms

.94 Evidence Testimony in general not limited to civil trials

.95 Remedies

.96 Justises of the peace Notaries Sheriff

.97 Organization of courts

.98 Jurisdictions

.99 History of special courts

348 Canon law

349 Foren law

Divided like 930-999, and under each modern state divided like 345 with decimals .71 — .79 used for Treatises like 347; e. g. 349.4475 is French law of torts, 349.442 is French code. Roman law is divided:

.37 Roman law

.01 Philosofy .02 Compends .03 Dictionaries .04 Essays .05 Periodicals .06 Societies .07 Education .08 Polygrafy .09 History

.371 Sources: Ante-Justinian

.372 " Justinian

.373 History and criticism of sources

.374 Institutes: ancient Roman law

.375 Pandects: modern " "

.377 Treatises on special topics

Divided like 347

350 Administration

Including Military science. .1 Theory; .2 Compends; .3 Dictionaries; .4 Essays; .5 Periodicals; .6 Societies; .7 Education; .8 Polygrafy; .9 History

A large number of the questions properly placed under Administration are clast with related topics elsewhere. Some of these are repeated here, both to show the scope of the subject 'Administration' and to provide for cross references by those specially interested. See also 342 Constitutional law and history

351 Administration of central government

.1 **Organization of civil servis**

Offisers Method of selection: election or appointment Official functions and powers Mutual relations

.2 **Civil lists**

.3 **Examination**

.4 **Tenure of offis** **Disciplin** See 351.92 Power of removal

.5 **Pensions**

.6 **Reform** **Spoils system vs offisholding class**

.7 **Subjects of administrativ action**

See also 353 United States; 354 Foren states

.71 Financial administration

See 336 Public finance, public property, taxation

.72 Budget Public accounts

.73 Internal affairs See also 323 Domestic relations

.74 Police mesures

.75 **Public safety and order** See also 352.2 Police; 365 Prisons, etc.

.751 Press

.752 Reunion and association

.753 Wepons

.76 **Vice and good manners**

.761 Liquor regulation See 178 Temperance

.762 Public gaming See 174.6 Ethics

.763 Public begging See 339 Pauperism

.764 Prostitution See 176.5 Ethics

.77 **Sanitary police**

See 352.4 Boards of helth; 614 Public helth, etc.

.78 **Accidents** See 614.8 Public helth

.781 Bildings See 614.85

.782 Fires See 614.84

351.8 Promotion of public welfare
.81 **Means of communication**
See 380 Commerce, communication
.811 Highways See 386; 352.7 Local government
.812 Railways See 385
.813 Waterways See 386; 387
.814 Ferries
.815 Bridges See 352.7 Local government
.816 Postoffis See 383
.817 Telegrafs See 384
.82 **Trade and industry**
.821 Weights and mesures See 389 Commerce
.822 Coinage and money See 332 Banks, money
.823 Landed industry
Agriculture See 630 Useful arts; 338.1 Production
Forests See 634.9 Agriculture; 333.7 Land
Mines See 622 Mining; 338.2 Production; 333.8 Land
.824 Commercial and manufacturing industry
See 380 Commerce; 338 Production
.825 Institutions of credit See 332 Banks, credit
Savings banks See 332.2
Mutual benefit societies See 334 Cooperation
Insurance See 368; 334.3 Cooperativ insurance
Monts de piété See 332.33
.83 **Labor** See 331 Capital, Labor, Wages
.84 **Public charity**
See 339 Pauperism; 360 Associations and institutions
.85 **Education and worship**
.851 Public education See 379 Education
.852 Public libraries See 027.4 Library economy
.853 Art museums See 708 Art
.857 Worship See 322 Church and state
Military and naval See 355–359 Army and Navy
Justis See 340 Law
Foren affairs See 341 International law; 327 Political science
.9 **Control over the administration**
.91 Administrativ control By superior offisers
.92 Disciplinary power
Power of removal. See also 351.4 Tenure of offis
.93 Supervision
Power to annul or amend specific acts
.94 Judicial control
.941 **Ordinary courts** See 347.5 Law of torts
.945 **Criminal courts** See 343 Criminal law
.95 Administrativ courts
.96 Parliamentary control
.97 Petitions and addresses
.98 Investigations
.99 Impeachment

352 Local government: county, town, city

See also 379 Public schools; 020 Libraries

General questions of municipal administration

.001 Growth and importance of cities
.002 Cities and state control
.003 City as a juristic person, a corporation
See also 347.1 Law of corporations
.004 City organization, municipal elections
.005 Municipal civil servis

Local administration of special countries and cities

.03–.09 divided by countries like 930–999

.042 Local government in England

Arrange matter relating to special cities alfabeticly by name of city and subdivide the remaining works as follows:

1 County
2 Municipal boro
3 Parish
4 Union See 339 Pauperism
5 Sanitary districts See 614 Public helth
6 School districts See 379 Education
7 Highway areas See 352.7

.043 Local government in Germany Special cities like 352.042

1 Province: landtag, provincial committee, director
2
3 Circle Circle diet Circle committee Landrat
4 Commune
5 Towns
6 Township

.044 Local government in France Special cities like 352.042

1 Department
2 General council
3 Departmental commission
4 Prefect
5 Arrondissement
6 Commune
7 Mayor
8 Municipal council

.1 Finances: city property and local taxation

See also 336 Public finance

.2 Police

.3 Fire department See also 621.68 Fire engins; 614.84 Fires

.4 Public helth: board of helth See also 614 Medicin

.5 Public bildings and works

.6 Water and sewerage works See also 628 Sanitary engineering

.7 Streets Highways Bridges Parks

See also these topics in Relativ index for other relations

.8 Licenses: hack, huckster, entertainment, etc.

.9 Other topics

353 United States and state government

Operation of government, except legislativ branch. For U. S. congress and state legislatures see 328.73–.798, where also are department reports in sets of congressional and state documents. Class separates of such reports with their subjects or with their respectiv departments in 353.1–.97988 when they have no definit place elsewhere in the classification; but report of bureau of education 379.73, of agriculture dep't 630.6

See also 342.73 Constitutional law and history

.01 Administrativ centralization
.02 Separation of powers
.03 President
.04 Departments
.05 Cabinet

.1 State department

.2 Tresury department

Laws and rules governing tresury; but class reports 336.73 U. S. Finance

.3 Interior department

.4 Postoffis department

See 383 Postal servis

.5 Judiciary department

.6 War department

See also 355 Army; military science

.7 Navy department

See also 359 Navy; naval science

.8 Other departments

.9 State government Divided like 974-979

Apply same decimals for state and foren governments. For departments not here specified use .8 and .9 and any of above numbers left blank; e. g. for a state having no navy, .7 is free for some local use. Judiciary dep't of D. C. 353.97535 353.9 includes history of regiments, unless covering a particular period of national history; e. g. the "history of the N. Y. 7th regiment in the civil war" is attracted to 973.74, but a general history of the same regiment is 353.97476

354 Organization of central government Foren states

See also 342 Constitutional law and history

Divided geograficly by countries like 930–999. Under each country the U. S. divisions, 1 State, 2 Tresury, etc. may be used; e. g. State department of Great Britain, 354.421. Add also the following divisions:

.42 Administration of England Central government

01 Administrativ centralization
02 Separation of powers
03 Monarch
04 Privy council
05 Cabinet

.43 Administration of Germany Central government

01 Administrativ centralization
02 Separation of powers
03 Empire
04 Bundesrat
05 Emperor
06 Ministry
07 States Monarchs
08 Landtag Ministers Council of state
09 Free cities

.44 Administration of France Central government

01 Administrativ centralization
02 Separation of powers
03 President
04 Ministers
05 Council of state

355 Military science Army

Military in broad sense of land and sea forces; but limited to military science, tactics, etc. For War department of U. S. see 353.6; for history of regiments see. 353.9 and subdivision 4 under special wars in 973; e. g. Mexican war being 973.62, regimental history of that war is 973.624. See also 623 Military engineering
.01 Theory .02 Compends .03 Dictionaries .04 Essays .05 Periodicals .06 Societies .07 Education .08 Polygrafy .09 History

.1 Military life

Including honor, honors and insignia, and standards

.11 Servis periods and retirement

.114 Termination of servis Resulting status

.12 Military life in peace and war

.13 Military honor Disciplin

Professional morality; rewards

.14 Uniforms

System; distinguishing rank; style, color and esthetic considerations
See also 355.81 Clothing of troops

.15 Colors and standards

.16 Military celebrations

Commemorations, anniversaries, jubilees

.2 Military resources

.21 Preparedness

Rediness of resources for mobilization

.22 Men Recruitment

Voluntary and compulsory enlistment; recruits from military schools. Obligations of citizens with respect to national defense
For relations of government to maintenance of public order see 351.74 Government police mesures

.23

.24 Raw material

Agricultural, mineral, etc.

.25

.26 Manufactures, industries

.27 Transportation

Roads, railroads, canals, ships

.3 Organization of military forces

.31 Army units and organization

For special arms see 356 Infantry, 357 Cavalry, 358 Artillery. For classification according to military obligation and field of servis see 355.35

.33 Offisers Military hierarchy

.331 Command in general

General principles and rules of command, whether of large or small units

.34 Special servis

Outside the regular arm or grade

.35 Armies General staff

Armies clast according to military obligation and field of servis; e. g. European armies of first line, 2d line, colonial armies
For military units see 355.31

355.4 Tactics and strategy

.41 Logistics and field servis

.42 General tactics

See each arm for its peculiar tactics

.43 Strategy

.44 Siege warfare

For siege engineering see 623.2

.45 National defense

.47 Military geografy

Divided like 930–999

Geografic works from military point of view and works on strategic conditions of theaters of operations

.48 Wars, campains, battles, military exploits

Better clast with wars to which they belong in 930–999

.5 Servis

Garrison and field servis, mobilization; instruction of troops and subaltern grades: maneuvers

.52 Grand maneuvers Instruction camps

.6 Military administration

Class here only what concerns the workings of administrativ servises. For personnel and organization of these servises see 356.3

.7 Military establishments

Organization and servis

See also 359 Naval establishments

623.63 Military establishments (military engineering)

725.12 Architecture of military bildings

.8 Military equipment and supplies

.81 Clothing Camp outfit

.82 Small arms and ammunition

Administrativ questions: working and reserv supply; storage, issue, etc.

For mechanism and relativ efficiency of different kinds see 623.4

.83 Wagons Harness Transport outfit

.84 Pioneering tools

.85 Other tools Instruments

356 Infantry

1 Organization

Light infantry, mounted infantry, cyclist infantry

.12 Special colonial infantry

.13 Organizations eventually subject to mobilization

.14 Volunteer corps

.15 Irregular troops

'Corps francs' existing only during war

.16 Special infantry troops

Sharpshooters, etc.

.2 Staff and special servises

.3 Administrativ staff and servises

Personnel and organization

357 Cavalry Mounted servises
.1 **Cavalry proper**
.2 **Remount and training servises**
.3 **Army train**

358 Artillery, engineers and other technical servises
For ordnance, gunnery, etc. see 623 Military engineering
.1 **Artillery**
.2 **Engineers**
.3 **Other technical servises**

359 Naval science
Divided by .01–.09 like 355. See also 623.8 Naval architecture

360 Associations and institutions

This covers what is best known as "Charities and corrections," and general works on this topic go in 360. Under each section .9 is used as in 362.9, for grouping by location: e. g. Clubs of London are 367.9421

361 Charitable
See also 377.7 Charity schools. For humane societies see 179.2

362 Hospitals, asylums, and allied societies
.1 **Sick and wounded Incurables Eye and ear infirmaries Lying-in hospitals Dispensaries**
.2 **Insane**
For other relations see Insane, Insanity in Relativ index following Tables
.3 **Idiotic**
For other relations see Idiocy, Idiots, in Relativ index
.4 **Blind Def Dum**
See also 371.91 Education
.5 **Paupers**
For other relations see Pauperism, Paupers, in Relativ index
.6 **Aged Invalids Bereft**
Mothers pensions Aid in cases of deth
.7 **Children Orfans Foundlings**
Child welfare See also ethics, 179.2 Cruelty
.8 **Other**
.9 **Special countries**
Divided like 930–999; e. g. 362.942 Hospitals of England

363 Political
Tammany, Primrose leag, Ku Klux, etc.

364 Reformatory Criminology
Schools; discharged convicts; criminal classes

365 Prisons Disciplin
See also 331.5 Convict labor

366 Secret societies
.1 Masons .2 Knights of Pythias .3 Odd Fellows .4 Rosicrucians
See also 371.85 College secret societies

367 Social clubs

368 Insurance

See also 334.3 Cooperativ insurance

.1 **Fire**

.2 **Marine**

.3 **Life**

.31 Annuities

See also 336.35 Public annuities; 519.5 Probabilities

.4 **Accident Liability**

.5 **Animal and crop, agriculture**

.6 **Plate glass**

.7 **Boiler**

.8 **Credit and bonds Land titles**

.91 **Government control Commissioners**

.91-.99 divided geograficly like 940-999; e. g. Insurance in New York (including state reports, etc.) is 368.9747

369 Other associations and institutions

.1 **Hereditary and patriotic societies (American)**

.11 **General associations**

.111 Regular army and navy union

.112 Society of veterans of the regular army and navy

.113 Military and naval order of the United States

.114 Medal of honor legion

.115 Military order of foren wars of the United States

.116 Order of the old gard

Incorporated 31 Jan. 1896; organized 15 Oct. 1896

.117 Naval order of the United States

.118 Society of American wars

.119

.12 **Colonial societies**

.121 Society of colonial wars

.122 Society of colonial dames of America

A New York society with chapters in other states; known also merely as Colonial dames of America

.123 National society of colonial dames of America

A federation of separately incorporated societies in about 40 different states

.124 Society of the Mayflower descendants

.125 Order of the founders and patriots of America

.126 Colonial order of the acorn

.127 " society of Pennsylvania

.128 " daughters of the 17th century

.129

.13 **Revolutionary societies**

.131 Society of the Cincinnati

.132 Society of the daughters of the Cincinnati

.133 Sons of the American revolution

.134 Sons of the revolution

.135 Daughters of the American revolution

.136 Daughters of the revolution

.137 Children of the American revolution

369.14
.141 Society of the war of 1812
.142 United States daughters of 1776–1812
.143 Military society of the war of 1812
.144 Society of the second war with Great Britain in the state of New York
.145 Aztec club of 1847
.146 National association of veterans of the Mexican war
.147
.148
.149
.15 Civil war societies, Union
.151 G. A. R. (Grand army of the republic)
.152 Military order of the Loyal legion
.153 Society of loyal volunteers
.154 Union veterans union
.155 Union prisoners of war association
.156 Society of the army and navy of the Gulf
.157 National association of naval veterans
.158 Society of the army of the Cumberland
.159
.16
.161 Woman's relief corps
.162 Woman's veteran relief union
.163
.164
.165 Society of the sons of veterans, U. S. army
.166
.167
.168
.169
.17 Civil war associations, Confederate
.171 Confederate survivors association
.172 Confederate veterans association
.173 United sons of confederate veterans
.174 " confederate veterans
.175 Daughters of the confederacy
.18
.181 Spanish war veterans
.182 Society of the army of Santiago de Cuba
.183 Naval and military order of the Spanish American war
.184
.185
.186 **Societies arising from Great war of 1914–19**
-4 Young peoples societies
For religious societies see 267.6
-41 **Mixt: boys and girls**
-42 Boys
See also 136.77 The 'gang'
-43 Boy scouts
-46 Girls
-47 Campfire girls

370 Education

Disciplin in broad sense

.1 **Theory of education Meaning Aim**

Including philosofy of education, science of education and general methodology. Not limited to any curriculum, school or class of schools. For specific methods, pedagogics, see 371

.109 History of educational theory

.15 Psychology applied to education

Imitation, suggestion, play, etc. Divided like 150 Psychology; e. g. function of memory in education 370.154

.2

.3 **Dictionaries Cyclopedias**

.4 **Essays Addresses**

.5 **Periodicals**

General. For periodicals limited to a special topic see that topic; e.g. kindergarten magazines 372.205. See also 371.805, 378.05

.59 Educational almanacs and kalendars for teachers

.6 **Organizations Conventions**

.61

.62 Associations Clubs

Permanent societies, their meetings and reports. Divided like 940–999

.63 Congresses Conventions

Occasional congresses and conferences: international or interstate

.7 **Study of education Institutions and organizations for training teachers**

Means and methods, including normal schools, institutes, etc. For need of training, kind and amount, see 371.12

.71 Teachers meetings

Class meetings of teachers of a single institution (faculty meetings) with the institution; see table for school and college publications under 378.4–.9

.711 Plan and organization

Frequency, time, place, control, cost, etc.

.712 Programs, courses of study

.714–9 In special places

Divided geograficly like 940–999

.72 Teachers institutes

Divide like 370.71 above

.73 Normal schools

Institutions primarily for training teachers; e.g. state normal schools, Teachers college of Columbia university; often with attacht 'model' or practis schools, in which normal students teach under supervision of their instructors. For training classes attacht to regular schools see 370.75

.731 Plan and organization Aims and functions Scope

Length and time of terms. Support: public, private

.732 Courses, programs Credentials

.733 Adjuncts: practis or model schools

.734–9 Special countries and schools

Divided geograficly like 940–999

.74 Education museums

Including exhibits at international expositions, state and county fairs, etc.

.75 Training classes

Class here teachers classes attacht to regular schools. For normal schools see 370.73

.8 **Polygrafy**

.81 Collected writings of a single author

If not limited to a definit topic; e.g. Horace Mann, Henry Barnard, etc.

.82 Collected writings of several authors

370.9 **History, description**

General works covering both ancient and modern history, and including history of institutions, practis, and description of conditions. See also 136.791 The child among uncivilized and semicivilized peoples

.92 Educational biografy

Preferably clast in 923.7

.93–9 History of education in special countries

Subdivided like 930–999

.9401 **Medieval Europe**

.9405 **Modern Europe**

371 Teachers Methods Disciplin

Practical methods. See 370.1 for theories of education. The following divisions concern instruction of all grades

.1 **Teachers Teaching personnel Professors, masters, instructors**

See also 370.7 Training of teachers

.101 **Duties and responsibilities Missio 1**

.102 **Personal influence**

.103 **Relations to parents**

Mutual duties of parents and teachers

.104 **Relations to community Public status**

.105 **Social status**

.11 Qualifications Personality

See also 371.18

.12 Need of training; kind and amount

Discussion of special preparation of teachers and professors for their vocation. For teachers training schools and classes, see 370.7

.13 Examination Certificates Certified teachers Licenses

.14 Appointment Organization of teaching force

.142 **Appointment Contract Discharge Tenure**

.143 **Appointing body**

Board, committee, principal

.145 **Agencies**

Bureaus and associations for supplying teachers

.15 Professional status

Permanent profession vs steppingstone theory

.16 Salary and promotion Compensation Amount of servis

For pensions and insurance see 371.17

.161 **Salary**

.162 **Fees**

.163 **Allowance for expenses**

.164 **Residence Living expenses**

.165 **Promotion Advance in rank**

For salary promotion see 371.161

.166 **Hours Daily or weekly servis**

.167 **Vacation Yearly servis**

.168 **Sabbatic year**

371.17 Pensions and insurance for teachers
Carnegie pension fund

.18 Women as teachers
Feminization of teaching force

.19 Other topics

.2 School organization School records
Diary. 'Logbook.' For government of students, disciplin, see 371.5. For school supervision see 379.15

.21 Admission Enrolment Matriculation
For college entrance requirements see 371.214. Standards of individual schools are clast with the school

.211

.212 Grammar or intermediate school admission standards
Including standards of German bürgerschulen

.213 High school standards
Including standards of German gymnasia, French collèges and lycées

.214 College standards
Undergraduate and nonprofessional graduate courses in (American) colleges and universities

.215 Professional and technical school standards

.22 Tuition fees Free tuition Scholarships
See also 371.162 Professors fees; 379.13 Tuition fees of nonresident pupils in public schools; 378.34 Scholarships

.23 Terms Vacations Holidays Breaking up
See also Hygiene of vacations and holidays 613.76, 613.77; Closing for diseases, 371.712

.234 Terms in 2 or more places
For floating schools see 371.392

.24 Hours Recess
For exercise see 371 73 Care of body

.25 Classes Grades
For grading of schools, see 379.17. See also 371.394 Individual instruction

.253 Length of school courses; e. g. 6 year course
See also 378.241 Length of college course

.26 Marking system

.27 Examinations: oral, written Cramming
See also 428.9 Language
For competitiv examinations see 371.53

.28 Promotions Degrading

.29 Other topics

.291 Graduation Diplomas
May be subdivided like 371.21 See also 378.2 College degrees

371.3 Methods of instruction and study

Under the heds below class discussion of pedagogic value of these methods· For methods of teaching specific subjects, see those subjects; for their educational value see 375 Curriculum; e. g. teaching of mathematics 510.7, place of mathematics in curriculum 375.51

.31 Rote or concert teaching

.32 Text books Recitations

Use of textbooks. Textbooks themselvs are clast with the subjects treated

.33 Lectures Oral and visual instruction

.335 Visual instruction Lantern slides

.34 Developing or inductiv method

.35 Art of questioning Catechetic method

.36 Topical method

.363 Correlation

.365 Special days

Historical days: Discovery day, Flag day, Memorial day, Constitution day, Independence day. Birthdays: authors and other noted persons; Washington's birthday. Nature: Arbor day, Bird day. Other: Thanksgiving, Christmas, Easter, etc.

.37 Seminary method

.38 Laboratory method

.39 Other

.392 Floating schools or colleges

Combining travel and shipboard instruction

.393 Trips, excursions, visits

.394 Individual instruction Batavia system

By regular teacher or tutor, at home or at school. See also 373.1 Private instruction

.395 Small classes

See also 371.47 Quincy system

.4 Systems of education

For Fröbel's system see 372.2 Kindergarten

.41 Bell and Lancaster, or monitorial Mutual system

.42 Fellenberg or manual training; vocational schools, industrial education

For equipment and cost of manual training schools or departments see 371.623 Machine shops, 371.676 Apparatus, etc. For subjects of study see 375.01–.9 For individual schools see 607 or 378.99

.421 Educational value

.422 In elementary schools

.423 In secondary schools

.424 In special schools

.429 History and development

371.43 Military organization Military instruction
.44 Pestalozzian
Class here all Pestalozzi's educational writings
.45 Jacotot
.46
.47 Quincy system
.5 Government Disciplin Authority
.51 Rules
.52 Attendance Truancy Tardiness Absences
See also 379.23 Compulsory education
.53 Rewards Prizes Favors Approbation
.535 Interschool literary contests
Competitiv examinations. For interschool and intercollegiate debates see 374.245 For interschool athletics see 371.75
.54 Punishment Disciplinary penalties
Limits of school jurisdiction. Disciplin of consequences
.55 Corporal punishment
.56 Other punishments
Confinement; tasks; expulsion; suspension; discharge
.57 Personnel responsible for disciplin Monitors
.58 Moral government Alcott system
.59 Student self government College systems
.595 School city Ray system
.6 School premises and equipment
.61 Grounds Site
School playgrounds
.62 Bildings
Requirements peculiar to schools. See also 727 Architecture of educational institutions. The following subdivisions apply to both special rooms and separate bildings
.621 Study, lecture and assembly rooms
.622 Library and museums
Art, science, etc. See also 022 Library bildings: 371.64 Function of school libraries; 021.3 Relation of libraries and schools; 027.7–.8 Reports of college and school libraries
.623 Laboratories Observatory Machine shop
See also 542.1 Chemic laboratories; 522.1 Observatories 371.66 Scientific apparatus and supplies
.624 Gymnasium
See also 725.85
.625 Other special rooms or bildings
Dormitories, clubs, infirmaries, Y.M.C.A. and Y.W.C.A.
.626 Sanitation Lavatories
.627 Lighting
.628 Heating and ventilation
.629 Accessories
Elevators, lifts, telefones, etc.

371.63 Furnishing and decoration

.631 **Furniture**

Blackboards, desks, chairs, benches. For globes and maps see 371.66

.632 **Musical instruments**

.633 **Floors: bare, coverd**

See also 721.6 Architectural construction
022.96 Library bildings
645 House decoration

.634 **Walls: tints, covering**

.635 **Decoration**

See also 729 Architectural decoration

.636 **Pictures, frescoes Glass**

.637 **Sculpture**

.638 **Plants**

.639 **Other decoration**

.64 Libraries

Character and functions. For relation to public library see 021.3; for relation to other school rooms and bildings see 371.622. See also 027.8 School libraries; 027.7 College libraries

.641 **Relations of library to faculty and students**

.642 **School traveling libraries**

.643 **School reading lists**

See also 028.5 Reading of young

.644

.645 **Elementary school libraries**

.646 **Secondary school libraries**

.647 **College and university libraries**

Departmental and seminar libraries

.648 **Professional and technical school libraries**

In 371.645–8 may be clast matter pertaining to desirability and scope of such libraries, tho it is better in 027.7–8 with reports and other matter pertaining to their management

.65 Museums: character and functions

Divided if wisht like 010–999: e.g. 371.655 Science museums; 371.657 Art museums. Limited to character and functions of museums attacht to teaching institutions: see also 708 Art museums, and form division 074 under special subjects

.66 Scientific apparatus, laboratory equipment and supplies

Divided like 500; e.g. 371.662 Astronomic observatory

.67 Other apparatus, equipment and supplies

Divided if wisht like 010–999; e. g. 371.6791 Globes, maps, etc.

.7 **School hygiene**

.71 Helth of students Overstudy Fatigue

.711 **Sanitary conditions and inspection**

Board of helth. For sanitary engineer's side see 371.626

.712 **Medical inspection**

For personal conditions affecting helth and intellectual progress; e.g. clenliness, contagious diseases, nervous disorders, defectiv eyes, ears or teeth. Closing schools on account of epidemic or contagious diseases

371.713 **Posture**

See also 371.631 Furniture (ill designd desks and seats)

.716 **School meals**

Discussion. Administrativ problems: space, cost, whether wholly or partly free, etc. For management of lunch room, suitable food, etc. see 642.58

.718 **Open air schools**

.72 Care of eyes Effect of study

.73 Care of body Gymnastics Calisthenics

For systems of gymnastics or physical training, and books of exercises see 613.71

.731 **Educational influence of physical training**

.732 **Gymnastics Calisthenics**

2 In elementary schools

3 In secondary schools

4 In colleges

5 In special schools

6 In girls' schools

.733 **Military drill**

For military organization of school see 371.43

.734 **Fencing**

.735 **Swimming Bathing**

.736 **Riding**

.737 **Walking School promenades**

.74 Recreations Games, etc. Athletics Diversions

See also 371.61 School playgrounds; 613.74 Hygiene of play; 796 Outdoor sports

.75 Championship games Boat races Inter-school athletics

For other relations see Games in Relativ index following Tables

.79 Other special topics

.8 **Student life and customs**

Various aspects of student life and student activities outside regular courses of study

See also 784.6 College songs; 378.29 College costumes

.805 **Student periodicals**

Discussion here. Periodicals themselvs preferably with their schools

.81 Student honor

Cribbing Cheating Keys Ponies Copying

.82 Fagging and hazing Bullying German student duels

.83 Student organizations German corps

.836 **Ancient student societies**

.84 **Literary societies**

.85 **Secret societies**

Class all college chapters here, thus bringing the fraternity together, with reference from the college. See also 366 Secret societies

.86 Society premises Society houses Halls Temples, etc

371.87 Student houses Lodgings Dormitories

.88 Commons Student restaurants Eating clubs

.89 Celebrations Customs Triumfs, burnings, etc.

Anniversaries Ceremonious receptions Student banquets

.895 School plays

Divided by language like 400; e.g. 2 English, 3 German

.896 Class days

Of special institution, with institution

.9 Education of special classes

General questions; kind and methods of education for these classes For institutions see 362, 364. For study of abnormal children see 136.76

.91 Physically defectiv

See also 362.4 Asylums for blind and def

.911 Blind

See also 655.38 Printing for the blind

.912 Def

Finger alfabet See also 378 for degreeconferring colleges

.913 Blind-def

.916 Crippled

.92 Mentally defectiv

Divided like 132. See also 362.3 Idiot asylums, 920.8 Lives of idiots, cranks, etc.

.93 Morally defectiv Delinquents

See also 364 Reformatories. Criminal classes

.94 Other abnormal classes

See also 136.764-9 in Childstudy

.945 Exceptionals Precocity

.947 Dependents

See also 362 Hospitals, asylums and allied societies

.95

.96 Special ranks

See also 375.002 Courses for different social classes

.961 Princes

.962 Nobles

.97 Special types

See also 136.77 Boys, the 'gang'

.974 Freedmen Negroes

See also 378.75-.76 for degreeconferring colleges

.975 Indians

.976 Orientals

.98 Special nationalities

Special schools for foreners; e. g. Germans, Hungarians, Russians, Japanese in United States

.99 Coeducation of races

372 Elementary education

Primary schools. Dame schools. Infant schools (under 7 years)
See also Day nurseries 362.7; Minding schools 362.5 or 362.7; Crêches 362.7

.01 **Pedagogics and didactics of primary schools**

.1

May be used like 136.7 by those who insist on having childstudy with education

.2 **Kindergarten**

See also 371.44 Pestalozzian, for theory and early history. Put Fröbel's work and development of his system here

.201 **Theory Principles**

.202

.203

.204 **Essays**

.205 **Periodicals**

.206 **Societies**

.207 **Training of kindergartners**

.208

209 **History**

Divided if wisht like 940–999

.21 Methods

.211 **Gifts and occupations**

.212 Gifts

.213 Occupations

.214 **Stories**

.215 **Songs and games**

.22 Influence of kindergarten

.23 Relation to other schools

.3 **Observing powers Object teaching Science**

.35 Nature study

Divided like 500–599; e.g. Birds 372.35982

.36 Gardening

.4 **Reading Alfabet Fonics and word methods Spelling**

See also 428.6 Elementary readers

.45 Simultaneous teaching of reading, writing and spelling

.5 **Elementary writing and manual work**

See also 741 Freehand drawing

.51 Writing

First efforts, imitating printed roman letters

.52 Drawing Design

See also 741 Drawing

.53 Clay modeling

.54 Sewing, etc.

.55 Elementary basketry, weaving and braiding

372.6 Elementary grammar Language lessons

See also 400 Philology, subdivision 8 under each language

.61 Mother tung

.65 Second language

.7 Elementary arithmetic

Including mental arithmetic. See also 511. For Abacus see 511.2

.8 Other studies

Divided if wisht like 010–999; e.g. 372.82 Religion

.89 Elementary geografy

See also 910.7. Elementary textbooks may be put with their subjects, but a primer of geografy is more useful to a student of elementary schools and methods than to one interested in Geografy, Description, and Travel. Text books, except primary, go with their subjects

.9 Special countries and schools: history, reports, etc.

Divided like 940–999; e.g. 372.942 English elementary schools. Put here elementary schools whether public, endowd or private

373 Secondary Academic Preparatory

Class here discussions of general theories, methods, etc. pertaining specifically to secondary education, regardless of source of support. Class here also all private or endowd secondary schools for boys or both sexes; but class all public (taxsupported) schools in 379.4–.9, all primary schools (regardless of support) in 372.9, all schools and colleges solely for women in 376, and all colleges for men or coeducation in 378. Class methods and questions peculiar to monastic, diocesan and parochial schools in 377, but class the schools themselvs in 372, 373, 378, etc. according to their grades

For specific topics see 371

.1 Private instruction: tutor, governess, coach

.11 Relativ advantages of instruction at home and in school

See also 371.394 Individual instruction

.2 Day schools Boarding schools

.4–.9 Special countries and schools: history, reports, etc.

Divide like 940–999; e.g. 373.42 Higher English schools, Eton, Harrow, etc.

374 Home education Self education and culture

Cultural, personal aspect of education
Subdivided by 0 with form numbers if wisht; e.g. 374.05 magazines pertaining to this work, 374.06 Conferences, conventions, institutes, general meetings.
The term Home education covers the broad field of adult self education thru private reading, study clubs and reading circles, summer, vacation, evening and correspondence schools, lecture courses and other forms of extension teaching and other agencies for extending more widely opportunities and facilities for education outside the usual teaching institutions.
For relations of this work to libraries, the natural centers for such activities, see 021.2 See also 378.13 University extension

With or without personal guidance

.1 Solitary study Private reading Conversation

Advantages to be derived from reading. Study alone with or without aid of reading lists, syllabuses, etc.
Reading lists themselvs, syllabuses and other aids to study belong with other bibliografies (016) or with compends under their subjects. They may however, if preferd, be kept together under 374.19, divided like the classification; e.g. syllabus on English history 374.19942; on library economy 374.1902
See 028, for preparation of guides, policy, methods, etc.
Vocational guidance Choice of vocation is clast here because usually discust with self education and closely related to it and preparation for life, and is also often determind thru personal advice or conversation

.2 Associated study Clubs

.21 Study clubs

Class here 'travel clubs' which study about places without traveling to see them. See also 374.25

.22 Reading circles Book and periodical clubs

.23 Lyceums Literary clubs

.24 Debating societies Oratorical clubs

.245 Interschool and intercollegiate debates

For interschool literary contests see 371.535

.25 Traveling clubs Educational value of travel

Clubs which travel for education. See also 371.392, 371.393, 374.21

.28 Community centers

Whole community as a club of varied interests. Put here discussion of use of school bildings for various community purposes

.3

With personal guidance

Either alone or in groups, clubs or classes

.4 Correspondence teaching Manuscript aids

Including methods of correspondence teaching

.43 Societies for encouraging home study

.44–.49 Correspondence schools

General schools divided like 940–999. Special schools are better clast with their subject, with only a reference here: e.g. correspondence schools of agriculture 630.714

.5 Lectures

Single lectures, or series of lectures on different subjects; courses on the same subject unsupported by any other of the 7 factors of a complete extension course: i.e.

1	Lectures	3	Class	5	Guided reading	7	Examination
2	Syllabus	4	Papers	6	Club		

374.6 Extension courses Lecture study

.62 Lecture study

3 or more lectures on the same subject, with 2 or more of the 7 factors

.64 Extension courses

5 or more lectures on the same subject with 4 or more of the 7 factors

.8 Continuation schools

Summer, winter, vacation, night (adult) etc. German auxiliary schools
Divided like 940–999 For evening or night schools see also 379.19

.9 Central organizations, state departments, institutes

N.Y. state home education dept, Brooklyn institute, Cooper institute Chautauqua, etc.

375 Curriculum

.001 Order of studies
.002 Single course
.003 Parallel courses
.004 Optional courses Electiv system
.005 Balanced courses Group system

Special topics

.006 Overcrowding curriculum
.007 Courses for different classes of society
1 For bredwinning vs culture
2 Failure of course to develop efficiency
.008 Courses for schools of special kinds
Courses in schools of Roman catholic order of St Ann; outline of study for common schools; courses in French lycées, etc.
See also special schools under their respectiv subjects

.009 Courses for institutions in special countries

Divided like 900. See also 379.4–.9

.01–.9 Subjects of study

Divided like the classification 010–999; e.g. 375.5 Place of science in the curriculum, 375.84 French literature in the curriculum, 375.88 Classics in the curriculum
Methods of teaching individual subjects, also textbooks, may be kept with educational literature by adding letters to 375 as follows: A general, B educational value of specific subjects, C place in curriculum, D methods of teaching specific subjects, E textbooks;
e.g. 375.32 B Educational value of political science
375 32 C Place of political science in the curriculum

376 Education of women

See also 396.4

.1 Physical capacity of women

.2 Mental capacity of women

See also 136 1 Mental characteristics as influenced by sex

.3 Home or domestic instruction

By tutor or governess. See also 374

.4 Fashionable education 'Finishing' schools

Discussion. For prospectuses, catalogs, etc, see 376.9

.5 Convent education

Discussion. For prospectuses, catalogs, etc, see 376.9

376.6 Higher education of women

Secondary and college

.63 Secondary: preparatory schools for girls

All between primary and college. Discussion. For girls highschools see 379.4-.9; for private preparatory schools see 376.9

.64 Influence of college education on women

.66 Associations of college women

Association of collegiate alumnae. Alumnae of a single college with that college

.7 Coeducation Segregation Separation

Discussion of collegiate education of women in separate institutions or those for both sexes, whether in the same or separate classes. See 378 for coeducational institutions, 376.8 for separately organized colleges, either affiliated like Barnard and Radcliffe or independent like Vassar, Smith, etc.
Class here by attraction general discussion of coeducation of sexes in college and secondary school

.8 Colleges for women

Degreeconferring colleges go here. Arrange material of each college by "Table for school and college publications" following 378.99. All other schools for women go in 376.9

.9 Special countries and schools: history, reports, etc.

Subdivided like 940-999; e.g. 376.943 Education of women in Germany

377 Religious, ethical and secular education

Relations of religious to secular education. For inculcation as well as actual teaching of definit ethical or religious doctrins see 375; e. g. instruction in duties of citizenship, patriotism 375.172, course in Christian evidences 375.239. Class catalogs, history, etc. of a denominational school regardless of religious affiliation, but class here books dealing in general with schools of a certain denomination or order; e.g. educational system of the Jesuits 377.35

.1 Religious instruction Bible in public schools

Including sectarian instruction or influence in public schools. Public school teachers in religious garb. Conscience clause of English elementary school code

.2 Ethical education

Ethical training, without religious teaching, as advocated by ethical societies
See also 170.7 Study of ethics; 375.17 Place of ethics in curriculum

.3 Monastic or abbey schools

Ecoles congréganistes. Divide like 271. See also 271 Monastic orders; 376.5 Convent education of girls

.4 Diocesan schools Cathedral schools

Domschulen, stiftschulen

.5 Parochial schools

See also 257 Parochial schools

.6 Missionary schools

Establishment and conduct of schcols as part of mission work. See also 266 Missions

.7 Charity schools

Mainly for elementary education. See also 361 Charitable institutions

.8 Church and education

Subdivided like 280; e.g. 377.82 Relation of Roman catholic church to education. Discussion of denominational schools or educational associations e.g. 377.82 Association of Catholic colleges of United States
See also 261.5 Church and intellectual development

.9 Nonchristian religions and education

Subdivided like 290; e.g. 377.97 Relation of Mohammedanism to education

378 Colleges and universities

With power to confer degrees. For men only and for both sexes. For women s colleges see 376.8

.01 **Definition of college and university** **Aim**

Advantages and influence of college training; e.g. on business capacity

.014 **College terminology, 'slang'**

Including also student slang. See also 427, 437, etc.

.05 **Academic periodicals**

Periodicals devoted to college and university interests. Those issued by colleges, schools, etc. are scatterd either by subject or under college numbers

.06 **General college associations**

Association of New England colleges See also 370.6

.068 Associated alumni University clubs

For alumni associations of any one college, see T under college number

.069 Duties of college men as a body

.1 Organization Government Location Scope, field

Classes, colleges, graduate departments, etc.

.11 Administrativ offisers

.113 **Disciplinary offisers, judicial corps, university court**

President, deans, etc.

.12 Teaching staff Faculty

Exchange of professors. For qualifications see 371.11

.121 **Freedom of teaching**

See also political science, 323.444

.13 University extension

Conducted by universities. See also 374

.14 College year Summer or vacation instruction All the year session

.15 Location and size Large vs small

.153 **City vs country colleges**

.16

.17

.2 Academic degrees and costume College colors

See also 614.21 Medical degrees

Degrees

.21 Degree conferring body and powers

College, university or state. See also 614.21 State regulation of medical education

.22 Graded degrees

Pass, honor, cum laude, magna cum laude, etc.

.23 Degrees in course

Advanced degrees conferd at specified periods on graduates in good standing, without evidence of advanced attainments

378.24 Degrees for completion of courses
With or without examination

.241 **Time and residence required Length of college course**

.242 **Subjects allowable for liberal degree**
Whether technical courses should be credited toward liberal degrees

.243 **Differentiation of degrees: B.A. B.S. B.L. etc.**

.244 **Degrees on examination**
With or without residence

.25 Honorary degrees

.26 Degrees by purchase or forgery

Insignia

.27 Seal Coat of arms Motto

.28 Colors: institution and class College flags

.29 Academic gowns and hoods

.3 **Endowment of research Fellowships Scholarships Student aid**

.31

.32 Endowment of research
Carnegie institution. Incentivs to research. Prizes. Opportunities for research. Nobel prizes. Competitions

.33 Fellowships

.34 Scholarships
Rhodes scholarships Traveling scholarships

.35

.36 Student income and expenses

.362 **Loan funds Student aid societies**

.364 **College employment bureaus Faculty committees**
Other organizations for securing work for students

.365 **Student earnings**
Working way thru college Ways of earning

.368 **Student expenses: extravagance, economy**

4–.98 **Special countries and colleges: history, reports, etc.**
For women's colleges, see 376.8
Subdivide like 940–999; e.g. 378.42 English universities; 378.741 Maine colleges
The various colleges of any section may be given each a number or be arranged alfabetically. Under each college arrange publications by the following table, placing these letters *after* the letter (or letter and figures) used to designate the college; e.g. a history of Harvard college would be markt 378.744 H E, and a second history would be numberd 378.744 H E1. The practical convenience of this plan outweighs the objection that it introduces classification into the book numbers
If preferd, colleges and universities may be arranged alfabetically under continent number, insted of being clast first by country or state; e.g. European universities under 378.4 in alfabetic order regardless of country. United States colleges and universities all in one alfabet under 378.73

378.99 Professional, technical and other special schools Professional education

Best kept with subject, but may be compactly groupt here. Divided like the classification: e.g. 378.992 Theologic schools, 378.9934 Law schools, 378.9961 Medical schools

TABLE FOR SCHOOL AND COLLEGE PUBLICATIONS

A Charter and statutes
B Trustees Regents Resolutions, reports, etc
C Administration President, chancellor Reports, etc
D Finances Tresurer's reports
E History Foundation, growth, etc
F Biografy Necrology
G General catalogs Triennials, etc
H Annual catalogs Attendance, registers, etc
I Handbooks Circulars of information
J Bulletins Official periodicals
K Commencements, inaugurals, etc Baccalaureate and other addresses
L Programs Tickets Memorabilia
M Faculty (as a body) Publications Regulations Certificates for admission
N Lectures Class manuals Examination questions
O Student theses Orations, essays, etc
P Student catalogs Society annuals, etc
Q Student periodicals
R Student societies, including periodicals
S Student miscellany Songs Class day, etc
T Alumni Societies, committees, etc
U Classes Histories, records, etc
V Pictures Class albums
W Bildings and grounds Descriptions, maps, etc
Z Schools: divinity, law, medical, etc

379 Public schools Relation of state to education

.1 Public school system

.11 School funds

.12 National and state aid to education

.121 Public aid to private and sectarian schools

.123 Land grants

See also 336.14 Public finance

.124 Subsidies

.13 Local support

Taxation Bonds Endowment Nonresident tuition See also 336.28 Taxation

379.14 School laws and regulations School age
Divided like 940–999

.15 School supervision and control: national, state and local Centralization

.151 **National**

.152 **State: department, inspectors, etc.**

.153 **Local: superintendent, school committee, board**
Supplies, free textbooks, etc. For school meals see 371.716

.154 **Individual: parents and others**

.156 **State textbooks**

.16 Public colleges and universities: national, state and local
Only discussion here; for individual colleges see 378.4–.9

.17 Secondary schools
Discussion. For individual schools see 379.4–.9

.171 **Highschools Academies**
6 year highschools

.172 **Grammar schools**

.173 **Rural schools**

.175 **Central plan Conveying pupils**

.18 Primary schools Kindergartens
Questions of public maintenance. For individual schools see 372.9

.19 Evening schools
See also 374.8

.2 **Illiteracy Instruction of illiterates**

.21 Illiteracy and crime Education and crime Criminal illiterates

.22 Illiteracy and pauperism Indigent illiterates
See also 339 Pauperism; 362.5 Pauper asylums

.23 Compulsory education
See also 371.52 Truancy

.24

.3 **Public vs private and endowd schools**

.4–.9 **Special countries, sections, cities, etc.**

Subdivided like 940–999: e.g. 379.73 Reports of U.S. commissione of education; 379.744 Education in Massachusetts; 379.7471 in New York city. Keep state departments separate from city and other local systems by numbering state reports. A1–A8, using A9 followd by author's initial (lower case) for history of schools of any state; e.g. Fitch's *New York public schools* 379.747 A9f

380 Commerce Communication

Public utilities. The technical side of these questions goes mostly in 650 Useful arts. Here belong discussions of social and political relations.

.16 Government control of public utilities

381 Domestic trade

382 Foren trade Consular reports

Trade between mother country and colony

383 Postal servis

See also 353.4 U. S. administration

384 Telegraf Cable Telefone

See also 621.38 and 654

385 Railroad and express

Government ownership or control. Interstate commerce commission. See also 656 Railroading

386 Canal and highway transportation

See also useful arts, 656 Transportation

387 River and ocean transportation

History of shipping. Ship subsidies

See also useful arts, 656 Transportation

388 Local transit: city and interurban

See also engineering 625

389 Weights and mesures Metrology

See also 658 Business manuals

390 Customs Costumes Popular life

These heds are for discussions by topic. Customs, etc. of any special country go in 913–919. Books on a special topic in a special country go here, as the grouping by topics is the more important; e. g. Marriage in Japan is 392.5, but Japanese customs, 915.2. For customs of primitiv man, see 571

391 Costume and care of person

See also 646 Clothing; 613.4 Hygiene

.1 Costumes of men
.2 " " women
.3 " " children
.4 Extremities: hats, gloves, sandals, shoes, stockings, etc.
.5 Hairdressing Barbers
See also 646.7 Toilet
6 Care of person Bathing Toilet
.7 Ornaments and jewelry
.8

392 Birth, home, and sex customs

.1 Birth customs: christening, circumcision
.2 Sacrifice and exposure
See also ethics, 173.4 Infanticide
.3 Family and home relations
.4 Betrothal
.5 Marriage
.6 Sex relations Concubinage

393 Treatment of the ded

See also 614.6 Public helth

.1 Earth burial
See also 719 Cemeteries
.2 Cremation
.3 Embalming, mummies
.4 Exposure
.9 Special funeral customs: wake, suttee

394 Public and social customs

.1 Eating, banquets
.2 Shows and diversions
.3 Games Dances, etc.
.4 Ceremonies
.5 Processions
.6 Fairs
.7 Chivalry Tournaments
.8 Dueling Suicide
For other relations see Dueling in Relativ index following Tables

395 Etiquet

Codes of social procedure and behavior. For social ethics see 177

396 Woman's position and treatment

For costumes, see 391.2; biografy, 920.7

If a special library about women is wisht, 396 is the best place for it. Suffrage, education, and employment can then be put here, with references from 324.3, 376, 331.4, etc. but it would be unwise to bring everything about women here, e. g. to remove 618, Diseases of women, from the rest of medicin. Books on woman in general go in 396

.1 Emancipation

.2 Legal status, property, rights, etc.

.3 Political status

See 324.3, Suffrage; 329.83, Woman suffrage party

.4 Education

See also 376, Education of women

.5 Employment

See 331.4, Labor of women; 371.18, Teachers

D vided like the general classification; ē. g. woman as scientist, 396.55; woman's exchange, 396.56; woman as painter, 396.575; woman as author, 396.58, etc.

.6 Woman in home

.7 Delineation of woman in art

.8 Delineation of woman in literature

.9 Woman in history, politics, war Amazons

397 Gypsies Nomads Outcast races

People without nationalities who do not coalesce with the ruling people among whom they live. This includes Gipsy language, which till recently had no place in the linguistic groups of 400, as the Gipsy people have no place in the geografic divisions of history

398 Folklore Proverbs, etc.

See also 291-3 Mythology

This section is for material needed in studying Folklore. Mere stories for children, unless having a value to students of folklore, go in 823, or in J, if there is a Juvenil collection

.1 Primitiv traditions

.2 Legends, tales, traditions

.3 Folklore, traditional beliefs and customs, popular superstitions

.4 Fairies, elvs, ogers, monsters, etc.

Bogies, gnomes, dragons, vampires, werewolvs

.5 Chapbooks

.6 Riddles

.7 Dream books

.8 Song books

Including only popular collections, hardly ranking with Poetry or Music, but useful in the study of Folklore, etc.

.9 Proverbs

399 Customs of war

Wepons War dances Treatment of captivs Scalping Mutilation Burning Cannibalism See also 623.4 Firearms

Philology

400 Philology in general

In philology the general works put under 400–419 deal almost entirely with the Indo-European languages. They are put here because they cover most of the divisions of this class, and in practis are most convenient here. Under 439, 479 and 489 are placed books limited to the Teutonic, Romance, or Hellenic groups, and under 491 are placed only such general works as are specifically limited to the Indo-European group

401 Philosofy Origin of language
402 Compends, outlines
403 Dictionaries, cyclopedias
404 Essays, lectures, addresses
405 Periodicals
406 Societies, transactions, etc.
407 Education, teaching languages
408 Polygrafy Collections
.9 **Universal language**
.91 Volapük
409 History of language

410 Comparativ

410–419 includes *comparativ* works in *general* and also those on the Indo-European group in general, but general *and comparativ* works on Teutonic group are 439; on Romance group 479; on Hellenic group 489. Everything about an individual language is put with that language. 410–418 may be subdivided like 420–428

411 Orthografy Orthoepy Alfabets
412 Etymology, derivation
413 Dictionaries, lexicografy
414 Phonology Visible speech
See also 612.78 Physiology of speech
415 Grammar, morfology, syntax
416 Prosody
417 Inscriptions Paleografy
See 421.7, 471 7, 481.7, etc. Rare early mss are put in 091
418 Texts
419 Hieroglyfics
See also 493.1
.1 **Sign language**
For def mute alfabets, see 371.912

420 English philology

.1 Philosofy .2 Compends .4 Essays .5 Periodicals .6 Societies .7 Study and teaching .8 Collectiv works .9 History of the language

421 Orthografy

See also this hed treated in general grammars placed under 425

.1 **Alfabet**

For def mute alfabets, see 371.912

.2 **Vowels Difthongs Aspirates**

.3 **Consonants**

.4 **Phonetic spelling Spelling reform**

.5 **Orthoepy**

.6 **Accent**

.7 **Paleografy Inscriptions**

.8 **Abbreviations**

For stenografic and other uncommon contractions and abbreviations, see 653 Shorthand

.9 **Punctuation**

422 Etymology Derivation

422 is limited to derivation. For inflection, also called etymology, see 425 1

.1 **Origin and laws of language**

.2 **Prefixes Suffixes**

.3 **Reduplication**

.4 **Foren elements**

.5 **Noun forms: case, number, diminutivs**

.6 **Adjectival forms Degrees of comparison**

.7 **Pronominal forms: personal, possessiv, relativ, etc.**

.8 **Verbal forms: moods, tense, voice, etc.**

.9 **Particles: adverbs, prepositions, etc.**

423 Dictionaries Idioms

.1 Idioms .2 English .3 German, etc. Put a dictionary of two languages with the less known language. Under 423 put only English-English dictionaries. Put an English-French dictionary with French, 443.2; a French-Latin dictionary with Latin, 473.4. If in several languages, put with 413, or with least known. Put French-French dictionaries 443, not 443.1, so that the standard home dictionaries shall come first in each language. This plan brings together under each of the less known, all the dictionaries for translating either into or from that language. Some prefer to put each dictionary under the first language; i. e. that by which it is alfabeted. This gives under *each* language, regardless of its familiarity, *all* dictionaries for translating *from* it, but none for translating *into* it. These must be sought under the language from which the translation is to be made. For a cosmopolitan library this plan is simplest and best; but in an English library, the first plan, with only English dictionaries in 423, and both *in* and *out* dictionaries together under little known tungs is more convenient. References in either case show what may be found in the other place

424 Synonyms Homonyms

425 Grammar

425 includes general works, covering also orthografy and prosody

.1 **Morfology Inflection**

Divided like 425.2 Syntax; e. g. .5 Nouns, etc. See 422

.2 **Syntax**

.3 **Arrangement of words and clauses**

.4 **Particular sentences: conditional, hypothetic, etc.**

.5 **Nouns**

.6 **Adjectivs Articles**

.7 **Pronouns**

.8 **Verbs**

.9 **Particles**

426 Prosody

See also the hed Prosody, in general grammars 425

.1 **Quantity and accent**

.2 **Versification**

.3 **Feet**

.4 **Figures of prosody**

.5 **Meters**

.6 **Rimes**

.7 **Strophe and antistrophe**

.8 **Textbooks for writing verse**

.9

427 Dialects Early forms of language Slang

Subdivided by geografic divisions like 942. The Yorkshire dialect is 427.74; Gloucestershire dialect 427.41. The dialects of other languages take the geografic subdivisions of their countries. Dialects not provided for in these heds are placed with the last; e. g. American and Scotch with 427.9. The division by time is made with a 5th figure after 0: the earliest form of the language is markt .01; .09 is used for modern slang, e. g. 427.01 Old English

428 School books Texts for learning the language

Including only books for *learning* the language, with grammatic or philologic notes, etc. For other works see literature of the language, 820

.1 **Spelling books**

.2 **First lessons Elementary composition** For Rhetoric see 808.

Including in other languages books like Fasquelle, Ollendorff, Chardenal, Latin prose, etc. See also 372.6, Elementary grammars

.3 **Errors of speech Vulgarisms Use of words**

See 427.09 Slang; 424 Synonyms

.6 **Elementary readers** See also 372.4 Education

For primers and primary readers see 372.4. Class here 3d and 4th readers, and put higher readers with literature collections; 808.8 if general, 820.8 if English or English and American, etc.

.7 **Selections**

.8 **Texts of individual authors**

With grammatic notes and questions. Preferably class in 800 with cross references here

.9 **Examination papers**

429 Anglo-Saxon

All languages are subdivided like 420 English

430 German

437.01 Old High German; 437.02 Middle High German

439 Minor Teutonic

Including general works on Teutonic group

.1 **Low German**
.2 **Frisian** **Old Saxon**
.3 **Dutch** **Flemish**
.4 **Plattdeutsch**
.5 **Scandinavian**
.6 **Old Norse** **Icelandic** **Faroese**
.7 **Swedish**
.8 **Danish** **Norwegian**
.9 **Gothic**

440 French

447.9 **Canadian and creole French, etc.**

449 Provençal

Old French, as the earliest form of the language, is 447.01

450 Italian

459 Wallachian

.9 **Rumansh**

460 Spanish

469 Portuguese

470 Latin

479 Minor Italic Medieval Latin

Including general works on Romance group

480 Greek

Divide 487, Greek dialects, like 930; e. g. 487.2 Alexandrian Greek; 487.3 New Testament Greek; 487.81 Macedonian; 487.923 Ionic, etc.

489 Minor Hellenic Modern Greek

Including general works on Hellenic group

Works on Latin and Greek together, unless very clearly most useful in Latin, go with Greek, which here as well as elsewhere is made to include general works on the ancient classics

490 Minor languages

Each language subdivided if wisht like 420 English

491 Minor Indo-European

Besides Teutonic, 420–439; Italic, 440–479; and Hellenic, 480–489
This hed, 491, includes general works on the Indo-European tungs, but general works on the Teutonic languages go in 439, on the Romance group in 479, on the Hellenic group in 489, while most of the material placed under 400–419 is really Indo-European; but see also 410

.1 **Indic**
.2 **Sanskrit**
.27 Sanskrit dialects Prakrit
.3 **Pali**
.4 **Modern East Indian languages**
Excluding Dravidian, which is 494
.41 Sindi
.42 Panjabi
.43 Hindustani Hindi
.44 Bengali
.45 Uriya Orissa
.46 Marathi
.47 Gujerati
.48 Singhalese
.49

.5 **Iranic**
.51 Old Persian
.52 Zend (Avestan) Old Bactrian
.53 Pehlevi (Huzwaresh)
.54 Armenian
.55 Modern Persian
.56 Ossetic
.57 Kurdish
.58 Afghani
.59

.6 **Keltic**
.61 Gadhelic group
.62 Irish
.63 Gaelic or Scotch
.64 Manx
.65 Cymric group
.66 Welsh or Cymric
.67 Cornish
.68 Armorican or Bas Breton
.69 **Basque**

.7 **Russian**
.79 Ruthenian

491.8 **Other Slavonic**

Southeast Slavonic group

.81 Bulgarian (Church Slavonic)

.82 Serbian

.83 Kroatian

.84 Slovenian

West Slavonic group

.85 Polish

.86 Bohemian

.87 Moravian Slovakian

.88 Sorbian

.89 Polabian

.9 **Lettic**

.91 Old Prussian

.92 Lithuanian

.93 Lettish (Livonian)

492 Semitic

Northern group

.1 **Aramaic**

.19 Babylon and Nineveh cuneiform

.2 **Chaldee**

.3 **Syriac (Peshito)**

Central group

.4 **Hebrew**

.5 **Samaritan**

.6 **Phenician (Carthaginian)**

Southern group

.7 **Arabic**

.8 **Ethiopic (Amharic)**

.9 **Himyaritic**

493 Hamitic

.1 **Old Egyptian**

See 419 Hieroglyfics

.2 **Coptic**

494 Scythian Ural-Altaic Turanian

Dravidian Tamil Finnish Turkish Magyar, Hungarian

495 Eastern Asiatic Chinese Japanese

496 African

Excluding 493 Hamitic, 492.8 Ethiopic, etc. included in families above

497 North American

498 South American

499 Malay-Polynesian and other

Natural Science

500 Science in general

501–509 all have *Science in general* as their subject, but it is treated in these various *forms*. A periodical on *Chemistry* goes with 540.5, not 505, which is only for periodicals on Science in general. o in any class number in any part of the classification shows the subject to be general, not specific

501 Philosofy, theories, utilities, etc.

502 Compends, outlines Ancient and medieval science

503 Dictionaries, cyclopedias

504 Essays, lectures, addresses

505 Periodicals, scientific magazines

506 Societies: transactions, etc.

507 Education, methods of teaching and study Museums

508 Polygrafy: collected works, extracts, etc.

.1 Extracts .2 .3 General scientific travels .4—.9 Travels and surveys (if general) divided geograficly like 940–999

509 History of science

510 Mathematics

Works on *Mathematics in general* not limited to any one or two sections, are groupt by form of treatment like Science in general above; i. e. into Mathematical

510.1 Philosofy .2 Collections, compends .3 Dictionaries .4 Essays, papers tracts, letters .5 Periodicals .6 Societies .7 Education .8 Logarithmic and other tables, instruments .9 History

511 Arithmetic

See 372.7 Teaching elementary arithmetic

.1 **Systems of arithmetic**

See also 512.81 Theory of numbers

.2 **Notation and numeration Fundamental rules Abacus**

.3 **Prime numbers**

.4 **Fractions**

.5 **Analysis Permutation and combination**

.6 **Proportion and progression**

.61 Magic squares

.7 **Involution and evolution**

.8 **Mercantil rules Interest Alligation Mensuration Gaging**

See also 658 Business manuals

.9 **Problems and tables**

512 Algebra

.1 **Systems of algebra**

.2 **Numeric equations** **Imaginary expressions**

.21 Equations, 1st to 4th degrees

.22 Higher numeric equations

.23 Indeterminate equations Diophantin analysis

.24 Imaginary expressions

.3 **Algebraic equations** **Maxima and minima**

.4 **Series** **Fractions** **Binomial theorem** **Taylor's theorem**

.5 **Combinatory analysis**

.6 **Proportion and progression**

.7 **Involution and evolution**

.8 **Higher algebra**

.81 Theory of numbers See 511.1 Systems of arithmetic

.82 Theory of equations Complex variable See also 517.8

.83 Determinants

.84 Symmetric functions

.85 Elimination: eliminants and discriminants

.86 Transformations Substitutions

.87 Quantics

.88 Invariants Covariants Contravariants

.89

.9 **Problems and tables**

513 Geometry

Plane and solid geometry bound together is put 513. Descriptiv geometry is 515
See also 744 Mathematic drawing

.1 **Plane geometry**

.11 Right lines

.12 Intersecting lines

.13 Parallel lines

.14 Triangles

.15 Quadrilaterals

.16 Other polygons

.17 Similarity

.18 Areas

.19 Maxima and minima

.2 **Curvs**

.21 Circles

.22 Conic sections

.23 Ellipse

.24 Hyperbola

.25 Parabola

.26 Higher plane curvs

513.3 **Volumetric or solid geometry**
.31 Lines and planes
.32 Intersecting planes
.33 Parallel planes
.34 Polyedrons
.35 Pyramids
.36 Prisms
.37 Regular
.4 **With curvd surfaces**
.41 Sphere
.42 Cone
.43 Cylinder
.5 **Modern geometry**
.51 Points Lines Planes Duality
.52 Transversals
.53 Cones Conics Involution
.54 Radical axes and centers of similitude
.55 Poles and polars Reciprocal polars
.56 Harmonic and anharmonic properties
.57 Correspondence Correlation of figures
.58 Quadric surfaces: spheroconics, curvs of double curvature
.59 Surfaces of higher order: cubics
.6
.7
.8 **Absolute or non-Euclidean geometry**
.9 **Problems**

514 Trigonometry

.1 **Trigonometric functions General formulas** See 522.7
.2 **Trigonometric series**
.3 **Exponential formulas**
.4 **Solution of trigonometric equations**
.5 **Plane trigonometry: solution of plane triangles; analytic**
.6 **Spheric trigonometry General formulas**
.7 Solution of spheric triangles
.8 **Differences of triangles, plane and spheric**
.9 **Problems**

515 Descriptiv geometry and projections

See also 744 Mathematical drawing

.1 **Orthogonal projection on 2 planes**
.11 Straight lines Planes
.12 Single curvd lines
.13 Double curvd lines
.14 Single curvd surfaces
.15 Double curvd surfaces
.16 Surfaces of revolution
.17 Warpt surfaces
.18 Intersections of surfaces
.2 **Isometric and analogous projections**
.3 **Oblique projection**
.4 **Conic projection**
.5 **Spheric projection** See 526.8 Map projection
.51 Orthografic
.52 Globular
.53 Stereografic
.54 Polar
.55 Gnomonic
.56 Conic
.57 Cylindric
.6 **Perspectiv** See also 742 Drawing
.61 Plane Parallel Oblique Angular
See also Scene painting
.62 Cylindric
See also Panorama painting
.63 Shadows; natural and artificial light
.64 Reflections
.65 Circles, cylinders and spheres
.66 Distortions and corrections
.67 Human figure
.68 New methods Special devices
.7 **Shades and shadows**
.8 **Stereotomy**
.81 Stonecutting See also 693.12 Masonry; 730 Sculpture
.82 Carpentry See also 694 Bilding
.83 Stairbilding See also 694.8 Bilding; 729.39 Architectural design

516 Analytic geometry

CARTESIAN

.1 **Plane loci**
.11 Right lines
.12
.13
.14 Transformation of coordinates
.2 **Curvs**
.21
.22 Conic sections
.23 Ellipse
.24 Hyperbola
.25 Parabola
.26 Higher plane curvs
.3 **Loci in space**
.31 Right lines
.32 Planes
.33
.34 Transformation of coordinates
.4 **Curvd surfaces**
.41
.42 Conicoids or quadric surfaces
.43 Ellipsoid
.44 Hyperboloid
.45 Paraboloid
.46 Surfaces of higher order
.5 **Modern analytic geometry**
.51 Systems of coordinates
.52 Abridged notation
.53 Conics
.54 Higher plane curvs
.55 Poles and polars Reciprocal polars
.56 Harmonic and anharmonic properties
.57 Method of projection
.58 Quadric surfaces: spheroconics, curvs of double curvatures
.59 Surfaces of higher order: cubics
.6
.7
.8 **Quaternions: calculus of direction and position**
.9 **Problems**

517 Calculus

.1 **Infinitesimal Method of exhaustions**

Differential and Integral calculus, *bound together*, is put here

.2 **Differential**

.21 Series

.22 Indeterminate forms

.23 Change of the independent variable

.24 Theory of plane curvs Curv tracing

.25

.26 Theory of curvd surfaces

.27 Maxima and minima

.28

.29 Problems

.3 **Integral**

.31 Formulas of reduction and integration

.32 Definit integrals Eulerian integrals

.33 Rectification Quadrature Cubature

.34 Multiple integrals

.35 Laplace's functions Bessel's and allied functions

.36 Elliptic and hyperelliptic functions Abelian functions

.37

.38 Differential and partial differential equations

.39 Problems and tables

.4 **Of variations**

.5 **Of functions**

.6 **Of finite differences**

.7 **Of operations**

.8 **Of imaginaries Complex variables** See also 512.82

.9 **Problems**

519 Probabilities

.1 **General principles Direct and inverse probabilities**

.2 **Mathematical and moral expectation**

.3 **Testimony: decisions of juries and tribunals**

.4 **Probability of future events deduced from experience**

.5 **Life contingencies: annuities, life insurance** See 368.3

.6 **Errors of observation Mean or average values**

.7

.8 **Method of least squares**

.9 **Problems**

520 Astronomy

520.1 Astrology, see 133.5 520.2 Compends 520.3 Dictionaries 520.4 Essays
520.5 Periodicals 520.6 Societies 520.7 Study and teaching of astronomy
520.8 Collections, etc. 520.9 History of astronomy
See also note under Natural science in general, 500–509

521 Theoretic astronomy

Mathematical investigation of celestial motions, specially of the Solar system. Motions of individual bodies are clast under separate heds in 523

.1 Celestial dynamics

.11 General laws of equilibrium and motion See also 531.2
.12 Law of universal gravitation and motion relativ to the sun See also 531.51
.13 Problem of 3 bodies
.14 Figures of hevenly bodies
.15 Rotation of hevenly bodies

.2 Geocentric and heliocentric place

.21 Plane of orbit in space
.22 Position of orbit in its plane
.23 Position of body in its orbit
.24 Position of body in space
.25 Heliocentric longitude and latitude
.26 Geocentric longitude and latitude
.27 Variations of right ascension and declination
.28 Variations of longitude and latitude
.29

.3 Orbits

.31 Definitions of orbits
.32 Determination from 3 observations
.33 Determination from 4 observations
.34 Variation of elements of orbit
.35 Correction of approximate elements of orbit
.36 Application of method of least squares
.37 Kepler's problem
.38 Equation of center and radius vector
.39

.4 Perturbations

.41 Mutual action of planets
.42 Action of satellites
.43 Nonsphericity of planets
.44 Resisting medium

.5 Theory of planets

.6 Theory of satellites

.7 Theory of comets

.8 Theory of eclipses

.9 Precession and nutation See also 522.95–.96

522 Practical and spheric

.1 **Observatories**

.11 General plan, location

.12 Material and mechanism of dome, drum, etc.

.13 Transit bildings, wings, etc.

.14 High altitude observatories

.15 Portable

.19 History, reports and serial publications of observatories

.2 **Telescopes** See also 535.83 Optics

.21 Reflecting

.22 Refracting

.23 Eye piece and accessories

.24 Object glass

.25 Mounting, tube, etc.

.26 Equatorial mounting

.27 Transit mounting

.28 Observing chairs, etc

.29 Famous telescopes

.3 **Meridional instruments**

.31 Finding meridian line

.32 Mural circles

.33 Meridian circles

.34 Transit: placing in position

.35 Collimation constant

.36 Level constant

.37 Azimuth constant

.38 Other constants, flexure, index error, etc.

.4 **Extra meridional instruments**

.41 Sextant and quadrant, reflecting circle, astrolabe

.42 Altazimuth

.43 Zenith telescope

.44 Transit out of meridian

.45 Heliometer

.46 Equatorial

.47 Prime vertical

.5 **Auxiliary instruments**

.51 Sidereal clock and chronometer

.52 Electrochronograf

.53 Micrometers

.54 Personal equation machine See 522.97

.55 For illumination

.56 For solar observation

.57 Artificial horizons

.58 Heliostat

522.6 **Auxiliary observations**

.61

.62 Photometry See 535.2 Optics

.63 Photografy See 535.85 Optics; 770 Photografy

.64

.65 Polarization See 535.5 Optics

.66

.67 Spectroscopy See also 535.84
Technic; application to astronomy and use with telescope. For results see 523.37, 523.57, 523.67, 523.77, 523.87

.68

.69

.7 **Spheric astronomy** See also 514.6

.71 Celestial sphere Spheric coordinates

.72 Rectangular coordinates

.73 Transformation of coordinates

.74 Differential variations of coordinates

.75 Interpolation

.76 Meridian line Variation of compass

.77 Reduction of observations to the meridian

.78 Use of globes

.79

.9 **Corrections**

.91 Parallax

.92 Refraction See 535.3 Optics

.93 Semidiameter of celes tial bodies

.94 Aberration

.95 Precession See 521.9

.96 Nutation " "

.97 Personal equation See 522.54

.98 Instrumental errors

.99

523 Descriptiv astronomy

.1 **Universe**

.11 Structure of universe

.12 Nebular hypothesis

.13 Plurality of worlds

.14 Space and its temperature

.15 Resisting medium

.16 Cosmic dust

.17 Repulsiv force

523.2 **Solar system**

.21 Distributiv laws of planets

.22

.23 Conjunctions and oppositions

.24 Motion of solar system in space

.25 Constitution of planetary system

.26 Stability of solar system Ecliptic

.27

.28 Orrery, planetarium, gyroscope, etc. See 531.34 Rotation

.29 Zodiac

.3 **Moon**

.31 Constants: size, mass Distance and parallax

.32 Heat and light Phases

.33 Orbit and motions

Sidereal month, tropical, perigee and apogee, sun and earth's attraction, librations. See also 521.6 for Orbit

.34 Features of surface: mountains, plains, etc.

.35 Atmosphere

.36 Physical condition

.37 Spectrum

.38 Eclipses

.39 Charts, photografs, etc.

.4 **Planets**

.41 Mercury and intramercurial

.42 Venus

.43 Mars

.44 Asteroids

.45 Jupiter

.46 Saturn

.47 Uranus

.48 Neptune and transneptunian

.49 Charts, photografs, etc.

.5 **Meteors and zodiacal light**

.51 Aerolites

.52 Fireballs

.53 Meteoric showers, radiant points, etc.

.54 Systems of meteors

.55

.56 Connection of comets and meteors

.57 Spectrum

.58 Hight of atmosphere from observation

.59 Zodiacal light Aurora (borealis and australis)

523.6	**Comets**
.61	Appearance and development
.62	
.63	Orbits
.64	Remarkable comets
.65	
.66	Physical constitution
.67	Spectrum
.68	
.69	Charts, photografs, etc.
.7	**Sun**
.71	Constants, dimensions
.72	Heat and light: theories as to source
.73	Apparent motion Rotation See 525.38 Tables
.74	Spots, faculæ, and other features of surface
.75	Prominences, chromosphere, corona
.76	Theories of physical constitution
.77	Spectrum
.78	Eclipses
.79	Charts, photografs, etc.
.8	**Stars**
.81	Stellar parallax, distance
.82	Heat and light Photometric observations Magnitude Visibility
.83	Proper motion, stardrift
.84	Variable, double, and multiple stars
.85	Clusters and nebulas
.86	Physical constitution
.87	Spectrum
.88	
.89	Constellations, maps, catalogs, etc.
.9	**Transits and occultations**
.91	Transits of Mercury
.92	Transits of Venus and solar parallax
.93	Delisle's method
.94	Halley's method
.95	Photografic method
.96	Transits of Venus to 1874
.97	Transit of 1882
.98	
.99	Occultations

524 Maps, observations, and tables

Series of observatory publications may be kept together under 524, or under 522.19 with the history and reports of the observatory. Special maps or observations, e. g. on Sun or Moon, are better placed in subsections 9 *under those heds* in 523, with charts and photografs, e. g. 523.79, thus leaving these bracketed numbers 524 to 524.9 blank They are printed to provide a place in case it is wisht to keep *all* maps and observations together

.3 **Of moon** See also 523.39

.4 **Of planets** See also 523.49

.5

.6 **Of comets** See also 523.69

.7 **Of sun** See also 523.79

.8 **Star catalogs** See also 523.89]

525 Earth

.1 **Constants**

.11 Mass Weight

.12 Density

.13 Dimensions, diameter

.14 Figure: geomorfy, equatorial belt

.15 Distance from sun

.16 Parallax

.2 **Heat Light**

.3 **Orbits and motions**

.31 Period of revolution

.32 Obliquity of ecliptic to equator

.33 Eccentricity

.34 Perturbations

.35 Rotation

.36 Foucault's pendulum

.37 Deviation of falling bodies and projectils

.38 Tables of the sun Apparent motion See 523.73 Sun

.4 **Geografic coordinates**

.41 Finding latitude See also 527.1

.42 By meridian altitudes

.43 By Pole star

.44 By altitude of 2 or more stars

.45 By other methods

.46 Finding longitude See also 527.2

.47 Terrestrial means: chronometers, telegraf, signals

.48 Celestial signals: eclipses, occultations, transits

.49 Lunar methods

.5 **Seasons**

.51 Effect of inclination of equator to ecliptic

.52 Effect of eccentricity of earth's orbit

.53 Secular changes of seasons

.54 Seasons on Mars and other planets

525.5 **Tides**
- .61 Mathematical theory
- .62 Effect of sun and moon in producing tides
- .63 Distribution, diurnal inequality, spring and neap, priming and lagging
- .64 Establishment of a port Coast form modification
- .65 Velocity of hight of tide wave
- .66 Tides on inland seas
- .67 Supposed effect in retarding Earth's revolution
- .68 Tide registering and predicting machines
- .69 Tide tables
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.5 **Superposition of vibrations**

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.52 Induction spark
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.83 Dynamos Electric lighting
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Modern chemic theories General properties of bodies from chemic point o view Composition Constitution Elements and compounds Affinity Fo-mu'as Nomenclature

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.2 Atomic theory

Ultimate constitution of matter. Nature and phases of ultimate particles: atoms, ions, anions, kations, electrons. Atomicity. Relationship of mass to chemic properties of bodies. Laws of chemic combination: weight, definit proportions, equivalence, multiple proportions. Laws of volume for gases. Simple or compound nature of chemic elements. Molecules. Atomic and molecular weights; methods of determination. Atomic and molecular volumes Laws fundamental to atomic theory; see also 541.9 Classification, periodic law, etc.

See also physics, 532.4 Specific weights

.3 Physical chemistry

Borderland between physics and chemistry. Including densities in different phases; chemic affinity, statics and dynamics; thermochemistry and electrochemistry

.31 Solid state

See also physics, 536.43 Solidification; 539.2 Properties of solids

.32 Liquid state

See also physics, 532.1 Properties of liquids; 536.42 Liquefaction; 541.34 Solution

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.325 Special types of liquids: gelatinous liquids

.326 Inorganic liquids

.327 Organic liquids

.33 Gaseous state

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.341 General

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2 **Laws Terminology**

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.344 Solubility and solution of different forms

1 Solids 2 Liquids 3 Gases Absorption

.345 Solution types

2 **Colloid solutions Emulsions**

Including general discussion of colloids

.346 Solvents

.35 Photochemistry

Relation of light to chemic action, of polarized light to chemic structure, etc.

.36 Thermochemistry

Relationship of heat to chemic properties of bodies. Thermodynamics and energetics applied to chemistry. Relations between specific heat and chemic constitutions. Molecular heats; atomic heats; latent heats of physical, allotropic, and chemic transformations. Principle of initial and final phases. Study of changes of phase. Melting points and boiling points. Liberation and absorption of heat in reactions. Exothermic and endothermic reactions. Variation with temperature of the quantity of heat used in transformations. Principle of maximum work

.37 Electrochemistry

.378 Magnetochemistry

.38 Radiochemistry

Chemistry of radioactiv substances

.39 Chemic dynamics, statics and equilibrium Affinity

Homogeneous and heterogeneous chemic equilibriums. Kinetic theory of chemic equilibriums (of Guldberg and Waage, Pfaundler, van't Hoff); thermodynamic theory (of Willard Gibbs, of Horstmann, of van't Hoff, of Duhem, etc). Reaction velocities. Accelerating and retarding influences. Catalysis. See also in physics 536.7 Thermodynamics and energetics

Variation of affinity with physical conditions. Valence. Combinations. Unlimited and limited decomposition. Dissociation, efflorescence, limits of dissociation and maximum dissociation. Combustion

.4 Various types of compounds

Acids, bases, salts, alloys

.5 Molecular types

.6 Compound radicals

Stereochemistry Formulas of structure

.7 Allotropy

Isomerism Amorfous and crystallin states Tautomerism Polymerism

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Interior construction and installation General arrangements For architecture see 727.5

.2 **Apparatus and manipulations** For special apparatus see 542.3–.9

.21 Manipulations Arrangements Procedure

.22 Preparation of substances

Mechanic separation: trituration, pulverization, porphyrization; mortars and pestles, crushers, sifting and sivs. Disintegration by wetting heated mass. Levigation

.23 Laboratory receptacles and their accessories

For uses of receptacles see also various processes and operations

.231 Glass and quartz

Beakers, bottles, flasks, retorts, test tubes, funnels, adapters, glass rods and tubing

5 **Glass manipulation: blowing, grinding**

232 Porcelain

Evaporating dishes, tubes, retorts. Refractory pottery: crucibles, plates

.233 Metallic

Containers made of platinum, silver, iron, nickel, aluminum, etc.

.24 Supports Fixt, adjustable, wood. Triangles, tripods, clamps

.25 Stoppers Glass, cork, rubber Corkborers

.26 Rubber tubing Luting and cements

.29 Other appliances

.3 **Mesuring apparatus**

.32 Determination of weights and density

Balances and weights Descriptions and directions for use

.33 Specific gravity apparatus Class preferably in 532.4

.35 Determination of volume

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.4 **Heating Distillation**

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.41 General

.42 Heating with coal

Laboratory furnaces: trough, cupola, reverberatory, tubular, cupel, blast
Tube furnaces for organic analysis

.43 Heating with liquid fuels, etc. Lamps; special burners

.44 Heating with gas

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Fishtail and Bunsen burners; gas furnaces and grates; pressure regulators

.46 Indirect heating

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.47 Electric heating

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See also 542.8 Electric and galvanic manipulations

.48 Operations

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.49 Other heating operations

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.51 Flame

Nature of flame; candle flame; oxidizing and reducing flames

.52 Coloration of flame

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.53 Blowpipes

Varieties of blowpipes and how to use them

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.6 Aqueous and liquid treatment

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.61 Dissolving Solution

Solvents, maceration, digestion, decoction, lixiviation

.62 Determination of solubility Supersaturation

Supersaturated solution

.63 Diffusion

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.64 Dialysis Dializers

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.65 Solidification

Precipitation, crystallization, crystallizers

.66 Decantation

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.67 Filtration and filters

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Hot filtration Filtration in seald vessels, by suction, by compression

Filter presses

.68 Expression and presses Drying of press residues; drying machines

.69 Washing Continuous, automatic; decantation, wash bottles

.7 Gas manipulation

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.71 General

.72 Gas production

.73 Gas collecting and decanting

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.74 Washing and dissolving gas

Wash bottles Apparatus for drying and absorbing gas

.75 Gas storage Gasometers, rubber bags

.76 Gas mesurement Graduated tubes, meters

.77 Rarefaction of gas

Pumps: air, vacuum, mercury; blowing engins, bellows, suction gasometers; manometers; vacuum regulators; trompes

See also physics, 533.5 Air pumps

.78 Gas compression

Seald tubes and bulbs, bellows, compression pumps, gasholders

.79 Gas liquefaction and solidification

Faraday tubes Apparatus for expansion; of Thilorier; of Cailletet and Linde

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.9 **Other operations**

Attacks by acids and gases: oxidations, reductions etc

543-545 Analytic chemistry

543 Analysis

Divided by material analyzed, whether qualitativly or quantitativly; i.e. substance takes precedence of process. Class in 543 general works covering both qualitativ and quantitativ analysis

See also 614.3 Adulterations

.1 **Analysis of food and drink**

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.2 Dairy products Milk

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.7 **Analysis of inorganic products in general**

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.3 **Electric methods**

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550.1 Philosofy, theories, geologic time .2 Compends .3 Dictionaries .4 Essays papers, tracts, letters .5 Periodicals .6 Societies .7 Study and teaching, museums .8 Collectiv works .9 History

551 Physical and dynamic geology

Including geophysics (physiografy, physical geografy) and geochemistry broadly treated; see also 551.94. For Cosmic geografy, see 523

.1 **Structure of earth as a whole**
.11 Interior of earth
.12 Internal heat
.13 Earth's crust
.14 Conductivity of rocks
.2 **Seismology**
.21 Volcanoes
.22 Earthquakes
.23 Hot springs, geysers
.24 Oscillations of the earth's crust
.3 **Erosion and deposition**
.31 Glaciers and glacial phenomena
.32 Moraines
.33 Transported materials, till
.34 Icebergs
.35 Aqueous erosion
.36 Coast changes
.37 Aerial erosion
.4 **Surface features of the earth**
Physical geografy
.41 Continents
.42 Ilands
.43 Mountains Valleys Orology
.44 Caves
.45 Plains
.46 Oceans
.47 Ocean currents
.48 Rivers Lakes
.49 Springs Wells Ground water

Division of Oceans for use under .46 and .47
1 Atlantic North sea Baltic
2 Mediterranean Black sea
3 Gulf of Mexico Caribbean
4 Southern Atlantic
5 Pacific
6 Eastern Pacific or American coast
7 Indian Bay of Bengal Red sea
8 Arctic
9 Antarctic

.5 **Meteorology Climate**
.51 Atmosferic currents Winds
.52 Thermometry, heat
For other relations see Heat, Temperature, in Relativ index following Tables
.53 Hypsometry, elevations See 526.36–8 for methods
.54 Barometry, pressure
.55 Storms
See also 537.4 Atmosferic electricity
.57 Moisture: rainfall, flow of streams, floods
.58 Prairies, forests, and deserts

551.6 **Metamorfism**
.7 **Stratigrafic geology**
.71 Archean
.72 Primary, paleozoic, Cambrian
.73 Silurian
.731 **Lower Silurian**
.732 **Upper Silurian**
.74 Devonian Old red sandstone
.75 Carboniferous
.76 Secondary, mesozoic, triassic and Jurassic: lias, oolite
.77 Cretaceous
.78 Tertiary, cenozoic
.781 Eocene, oligocene
.782 Miocene
.783 Pliocene
.79 Quaternary Postpliocene Glacial
.791 Recent
.8 **Structural geology**
.81 Stratification
.82 Curvature and contortion
.83 Ripple marks and sun cracks
.84 Joints Cleavage Polarity in rocks
.85 Dip Outcrop Strike
.86 Anticlinal Synclinal
.87 Faults and folds Dislocations
.88 Veins Dykes Necks Bosses
.89
.9 **Agents of geologic work**
.91 Frost
.92 Water
.93 Atmosphere
.94 Geochemistry
Chemic changes: heat. See also note to 551
.95 Animals
.96 Coral reefs
.97 Plants
.98 Segregation and concretion
.99 Other agents

552 Lithology Petrografy Petrology

.1 **Igneous rocks**
.2 Volcanic rocks
.21 Lavas Scoria
.22 Volcanic ashes Volcanic tufa Tuff
.23 Obsidian Pumis Pitchstone
.24 Trachyte
.25 Rhyolite
.26 Andesite Dacite Phonolite
.27 Felsites
.28 Basalt
.29 Other volcanic rocks
.3 Plutonic rocks
.31 Porphyry Porphyrite
.32 Syenite
.33 Granit
.34 Diabase and gabbro
.35 Dolerite
.36 Diorite
.37 Norite
.38 Peridotite
.39 Other Plutonic rocks
.4 **Metamorfic rocks**
.41 Granits and syenites
.42 Gneiss
.43 Schists
.44 Slates Argillite Phyllite
.45 Quartzite Novaculite Itacolumite
.46 Marble Crystallin limestone
.47 Serpentine
.48 Chrysolitic rocks
.49 Other metamorfic rocks
.5 **Sedimentary rocks**
.51 Sandstone Conglomerate Sand Gravel
.52 Shale Clay Silt
.53 Gypsum Salt
.54 Limestone Marl Ooze
.55 Dolomite
.56 Oolite
.57 Infusorial or diatomaceous earth
.58 Glauconite Greensand
.59 Other sedimentary rocks
.6 **Meteorites**
.7 **Decay of rocks**

553.8 **Microscopic petrografy**
.81 Determination of rock minerals
.82 Rock structure

553 Economic geology

See also 622 Mining engineering

.1 **Ore deposits**
.11 Formation and structure
.12 Classification
.13 Superficial: placers
.14 Stratified: beds, etc.
.15 Unstratified
.16 **Disseminated thru eruptiv rocks**
.17 **Stockwerks Fahlbands Contacts**
.18 **Chambers and pockets Impregnations**
.19 **Mineral veins**
.2 **Carbon series**
.21 Peat
.22 Lignite and jet
.23 Cannel coal Bituminous shale
.24 Bituminous and semibituminous coals
.25 Anthracite and grafitic anthracite
.26 Grafite Plumbago
.27 Asfalt and asfaltic coals Ozocerite
.28 Petroleum Natural gas
.29 Fossil gums and resins
.3 **Ores of iron**
.4 **Ores of metals other than iron**
.41 Ores of gold
.42 Ores of silver
.43 Ores of copper
.44 Ores of led
.45 Ores of zinc and tin Mercury
.46 Ores of manganese and chromium
.47 Ores of antimony and arsenic
.48 Ores of nickel and cobalt
.49 Other metallic ores
.5 **Bilding stones**
.51 Marbles and limestones
.52 Granits and syenites
.53 Sandstones
.54 Slates
.55 Serpentines Soapstones
.56 Porphyries
.57 Trap
.58 Tufa Peperino
.59 Other bilding stones

While the history of all other products goes in 553, history of metals is more useful in 669, Metallurgy

553.6 Earthy economic minerals

.61 Fire clays Brick clays Potter's clays
.62 Sands
.63 Rock salt Gypsum
.64 Phosphates Apatite Guano See also 631.85
.65 Emery Corundum
.66 Hevy spar Sulfur
.67 Asbestos, etc.
.68 Limes and mineral cements
.69 Other earthy economic minerals

.7 Mineral waters

Divide general works with 0 geograficly like 930–999; e.g. Mineral waters of Germany, 553.7043

.71 Alkalin
.72 Salin
.73 Chalybeate, ironbearing
.74 Sulfuric
.75 Calcic

See also 551.23

.8 Gems Ornamental stones

.9 Other economic minerals

554 Geology of Europe 554-559 subdivided by countries like 940-999
555 Geology of Asia
556 Geology of Africa
557 Geology of North America
558 Geology of South America
559 Geology of Oceanica Polar regions

560 Paleontology Use form divisions as in 550 and divide .9 geograficly like 930–999; e. g. Paleontology of England is 560.942

561 Plants 561 is subdivided like Botany, 580
562 Invertebrates 562–569 is subdivided like Zoology, 592–599
563 Protozoa Radiates
564 Mollusks
565 Articulates
566 Vertebrates
567 Fishes Batrachia
568 Reptils Birds
569 Mammals

570 Biology Archeology

570.1 Philosofy .2 Compends .3 Dictionaries .4 Essays, lectures, etc. .5 Periodicals .6 Societies .7 Study and teaching, museums; nature study .8 Collectiv works .9 History

571 Prehistoric archeology

For Customs, see 390 For Archeology of special countries, see 913

.1 **Paleolithic, or early stone age**
.11 Drift remains
.12 Cave men
.13 Remains of animals Shells
.14 Chipt stones
.15 Flint flakes Arrow heds Knives, etc.
.16 Other stone remains
.19 Other remains
.2 **Neolithic, or late stone age**
.21 Stone quarries
.22
.23 Remains of animals
.24 Polisht stones
.25 Sharpend stones: celts, tools, wepons
.26 Perforated stones: spindles, net sinkers, pipes
.27 Hollowd stones: mortars, cups, food vessels
.28 Other stone remains
.29 Other remains
.3 **Bronze age**
.31 Ancient copper and tin mining
.34 Bronze remains
.35 Tools Wepons, etc.
.37 Cups Vessels
.39 Other remains
.4 **Iron age**
.5 **Other remains**
.51 Implements of wood
.52 Implements of bone
.53 Basket work
.54 Textil fabrics
.55 Pottery
.56 Glass
.6
.7 **Rudiments of art Ornaments**
.71 Drawings
.72 Paint
.73 Sculptures
.74 Beads

571.8 **Dwellings**
.81 Natural caves
.82 Earth houses Pit dwellings Weems
.83 Lake dwellings Crannoges
.84 Cliff dwellings
.85 Pueblos
.86 Tents as dwellings
.9 **Mounds and monuments**
.91 Mounds and mound bilders
.92 Grave mounds
.93 Kitchen middens Shell banks
.94 Monoliths Cromlechs
.95 Circles Labyrinths
.96 Cairns
.97
.98
.99

572 Ethnology Anthropology

See also 136.4 Mental race characteristics

.1 **Unity of the human race**
.2 **Diversity of races**
.3 **Migrations of men**
.4 **Original home of man: Eden, Atlantis, etc.**
.5
.6
.7 **Savages: races divided by practises**
Class description of savages of special country in 914–919; e. g. Australian bushmen 919.4
.8 **Races divided by language like 400**
.9 **Races divided by countries like 930–999**
Divide by countries where possible. Use language divisions for groups like Semitic, Aryan, Teutonic, English, etc.

573 Natural history of man Somatology

.1 **Man's place in nature**
.2 **Origin of man**
.3 **Antiquity of man**
.4 **Influence of climate and surroundings**
.5 **Color in man**
.6 **Anthropometry**
.7 **Craniology**
.8 **Dwarfs and giants**
.9 **Monstrosities**
See also 611.012 Teratology; 613.91 Congenital defects; 617.3 Deformities

574 Homologies

575 Evolution

See also 213 Creation; 215 Religion and science; 239.8 Apologetics

.1 **Heredity**

For other relations see Heredity in Relativ index following Tables

.2 **Variation** See also 591.15 Physiologic zoology

.3 **Environment** See also 136.2 Mental; 573.4

.4 **Natural selection** **Survival of the fittest**

.5 **Sexual selection**

.6 **Development**

.7 **Degeneration**

.8 **Origin of species**

.9 **Origin of sexes** See also 591.36 Embryology

576 Origin and beginnings of life

[576-577 are undergoing revision that will change some numbers and greatly enlarge them in a late edition]

.1 **Spontaneous generation**

.2 **Protoplasm** **Bioplasm**

.3 **Cells**

.4 **Beginnings of motion and sensation**

.5

.6

577 Properties of living matter

.1 **Chemic: difference between organic and inorganic**

.2 **Life: difference between ded and living matter**

.3 **Difference between vital and physical phenomena**

.4 **Conditions of life: moisture, temperature**

.5 **Difference between plants and animals**

.6 **Vital force**

.7 **Deth** See also 612.013

.8 **Sex in nature**

.9

578 Microscopy See also 535.82 Optics

.1 **Varieties of microscopes**

.2 **Optic parts**

.3 **Mechanical parts**

.4 **Accessory apparatus and management of microscope**

.5 Illuminating apparatus

.6 **Preparation and mounting of objects**

.7 **Special preparation and study of inorganic material**

.8 " **botanic material** See 581.8 Histology

.9 " **zoologic material** " 591.8

579 Collectors manuals

.1 Preparing skeletons

.2 Preservativs and hardening fluids

.3 Injections

.4 Taxidermy

.5 Mounting specimens

.6 Collecting

.611 Alluring; bait, light, etc.

.612 Hunting; nets, collecting bottle, etc.

.613 Killing

.614 Exchange Purchase

.615 Rearing

.616 Transporting

.7 Arrangement of specimens in museums

.71 Cabinets .72 Labels

.8 Preservation of specimens

.81 Museum pests .82 Pestifuges .83 Prevention of moisture .84 Retention of colors

.9

580 Botany

580.1 Philosofy, classification, nomenclature .2 Compends .3 Dictionaries, cyclopedias .4 Essays .5 Periodicals .6 Societies .7 Study and teaching, herbariums, botanic gardens .8 Collectiv works .9 History

581 Physiologic and structural botany

Subdivided where wished like 591

.1 **Physiology**
.2 **Pathology Teratology**
.21 Diseases
.22 Teratology
.23 Parasites
.3 **Embryology Germination**
.4 **Morfology Comparativ anatomy**
.5 **Habits**
.6 **Economic**
.7 **Organografy Descriptiv anatomy**
.8 **Histology** See 578.8

.9 Geografic

.91 Distribution of plants

Subdivide .93–99 like 930–999 Use .92 for ocean, marine flo a

This Geografic classification is to be used only for general works and cross references 'Flora of North America' is put 581.97; but 'North American cryptogams' is clast 586 with a reference from 581.97, but North American phanerogams go with 581.97 because it so completely covers the subject

General works covering both Phanerogamia and Cryptogamia are put under 580 as books covering Vertebrates and Invertebrates are put under 590

In applying these numbers to Fossil plants, 561, note that one more figure must be used than in fossil animals. The Zoology numbers are alredy given in the 3d place in Paleontology, e. g. 592 Invertebrates, 562 Fossil invertebrates, and so on to 599 Mammals, and 569 Fossil mammals. But in Fossil plants, 561, all 8 sections are groupt together and the section number must be repeated. Fossil phanerogams are 561.2 not 562, which is assignd to Invertebrate zoology as more important. Lichens are 561.91, etc. In the same way the Fossil flora of North America is 561.197, i. e. the first 2 Botany figures, 58, are changed to 561 to give the corresponding Fossil botany number, while in zoology the only change is from 59 to 56 for first 2 figures, except in 591 which can not change to 561, which is assignd to Botany. The Fossil fauna of North America must therefore go among general works under 560.97

582 Phanerogamia See also 715 Trees; 634.9 Forestry

The subsections below are taken from the recognized authority, Bentham and Hooker's *Genera plantarum*

583 Dicotyledonæ

.1 **Polypetalæ**
.11 **Ranales**
.111 Ranunculaceæ
.112 Dilleniaceæ
.113 Calycanthaceæ
.114 Magnoliaceæ
.115 Anonaceæ
.116 Menispermaceæ
.117 Berberideæ
.118 Nymphæaceæ

583.12	**Parietales**
.121	Sarraceniaceæ
.122	Papaveraceæ
.123	Cruciferæ
.131	Capparideæ
.133	Resedaceæ
.134	Cistineæ
.135	Violarieæ
.137	Canellaceæ
.138	Bixineæ
.14	**Polygalineæ**
.141	Pittosporeæ
.142	Tremandreæ
.143	Polygaleæ
.145	Vochysiaceæ
.15	**Caryophyllineæ**
.151	Frankeniaceæ
.152	Caryophylleæ
.153	Sileneæ
.154	Alsineæ
.155	Polycarpeæ
.156	Portulaceæ
.158	Tamariscinéæ
.16	**Guttiferales**
.161	Elatineæ
.162	Hypericineæ
.163	Guttiferæ
.166	Ternstrœmiaceæ
.167	Dipterocarpeæ
.168	Chlænaceæ
.17	**Malvales** **Malvaceæ**
.18	Sterculiaceæ
.19	Tiliaceæ
.21	**Geraniales**
.211	Lineæ
.213	Humiriaceæ
.214	Malpighiaceæ
.221	Zygophylleæ
.223	Geraniaceæ
.23	Rutaceæ
.241	Simarubeæ
.245	Ochnaceæ
.247	Burseraceæ
.251	Meliaceæ
.255	Chailletiaceæ

583.26	**Olacales**
.261	Olacineæ
.269	Ilicineæ
.27	**Celastrales**
.271	Celastrineæ
.274	Stackhousieæ
.275	Rhamneæ
.279	Ampelideæ
.28	**Sapindales**
.281	Sapindaceæ
.291	Sabiaceæ
.292	Anacardiaceæ
.297	**Anomola**
.298	Coriarieæ
.299	Moringeæ
.3	**Rosales**
.31	Connaraceæ
.32	Leguminosæ
.37	Rosaceæ
.38	Saxifrageæ
.39	Crassulaceæ
.393	Droseraceæ
.394	Hamamelideæ
.396	Bruniaceæ
.398	Halorageæ
.4	**Myrtales**
.411	Rhizophoreæ
.414	Combretaceæ
.42	Myrtaceæ
.43	Melastomaceæ
.441	Lythrarieæ
.445	Onagrarieæ, œnotheras
.45	**Passiflorales**
.451	Samydaceæ
.453	Loaseæ
.455	Turneraceæ
.456	Passifloreæ
.461	Cucurbiyaceæ
.468	Begoniaceæ
.469	Datisceæ
.47	**Ficoidales**
.471	Cacteæ
.475	Ficoideæ
.48	**Umbellales**
.481	Umbellifer:
.491	Araliaceæ
.497	Cornaceæ

583.5 **Gamopetalæ**
.51 **Rubiales** Caprifoliaceæ
.52 Rubiaceæ
.53 **Asterales**
.531 Valerianeæ
.541 Dipsaceæ
.546 Calysereæ
.55 Compositæ
.57 **Campanales** Stylidieæ
.58 Goodenovieæ
.59 Campanulaceæ
.6 **Ericales**
.61 Vacciniaceæ
.62 Ericaceæ
.63 Monotropeæ
.64 Epacrideæ
.65 Diapensiaceæ
.66 Lennoaceæ
.67 **Primulales**
.671 Plumbagineæ
.672 Primulaceæ
.677 Myrsineæ
.68 **Ebenales**
.681 Sapotaceæ
.685 Ebenaceæ
.686 Styraceæ
.7 **Gentianales**
.71 Oleaceæ
.716 Salvadoraceæ
.72 Apocynaceæ
.73 Asclepiadeæ
.74 Loganiaceæ
.75 Gentianeæ
.76 **Polemoniales**
.761 Polemoniaceæ
.764 Hydrophyllaceæ
.77 Boragineæ
.78 Convolvulaceæ
.79 Solanaceæ
.8 **Personales**
.81 Scrophularineæ
.821 Orobanchaceæ
.825 Lentibularieæ
.829 Columelliaceæ
.83 Gesneraceæ
.84 Bignoniaceæ
.85 Pedalineæ
.86 Acanthaceæ
.87 **Lamiales**
.871 Myoporineæ
.876 Selagineæ
.88 Verbenaceæ
.891 Labiatæ
.899 **Ordo anomalus** Plantagineæ

583.9 **Apetalæ**
.91 **Curvembryeæ**
.911 Nyctagineæ
.912 Illecebraceæ
.913 Amarantaceæ
.914 Chenopodiaceæ
.915 Phytolaccaceæ
.916 Batideæ
.917 Polygonaceæ
.92 **Multiovulatæ aquaticæ**
.921 Podostemaceæ
.922 **Multiovulatæ terrestres** Nepenthaceæ
.923 Cytinaceæ
.924 Aristolochiaceæ
.925 **Micrembryeæ** Piperaceæ
.926 Chloranthaceæ
.927 Myristiceæ
.928 Monimiaceæ
.93 **Daphnales**
.931 Laurineæ
.932 Proteaceæ
.933 Thymelæaceæ
.934 Penæaceæ
.935 Elæagnaceæ
.94 **Achlamydosporeæ**
.941 Loranthaceæ
.943 Santalaceæ
.947 Balanophoreæ
.95 **Unisexuales**
.951 Euphorbiaceæ
.961 Balanopseæ
.962 Urticaceæ
.971 Platanaceæ
.972 Leitnerieæ
.973 Juglandeæ
.974 Myricaceæ
.975 Casuarineæ
.976 Cupuliferæ
.98 **Anomali**
.981 Salicineæ
.983 Lacistemaceæ
.984 Empetraceæ
.987 Ceratophylleæ

584 Monocotyledonæ
.1 **Microspermeæ**
.11 Hydrocharideæ
.13 Burmanniaceæ
.15 Orchideæ

584.2 **Epigyneæ**
.21 Scitamineæ
.22 Bromeliaceæ
.23 Hæmodoraceæ
.24 Irideæ
.25 Amaryllideæ
.26 Taccaceæ
.27 Dioscoreaceæ
.3 **Coronarieæ**
.31 Roxburghiaceæ
.32 Liliaceæ
.34 Pontederiaceæ
.35 Philydraceæ
.36 Xyrideæ
.37 Mayaceæ
.38 Commelinaceæ
.39 Rapateaceæ
.4 **Calycineæ**
.41 Flagellarieæ
.45 Juncaceæ
.5 Palmæ
.6 **Nudifloreæ**
.61 Pandaneæ
.62 Cyclanthaceæ
.63 Typhaceæ
.64 Aroideæ
.68 Lemnaceæ
.7 **Apocarpeæ**
.71 Triurideæ
.72 Alismaceæ
.74 Naiadaceæ
.8 **Glumaceæ**
.81 Eriocauleæ
.82 Centrolepideæ
.83 Restiaceæ
84 Cyperaceæ
9 Gramineæ

585 Gymnospermæ
.1 **Gnetaceæ**
.2 **Coniferæ**
.9 **Cycadaceæ**

586 Cryptogamia

587 Pteridophyta
.1 **Isoeteæ**
.2 **Equisetæ**
.3 **Filicinæ**
.9 **Lycopodinæ**

588 Bryophyta

.1 **Sphagna**
.2 **Musci**
.3 **Hepaticæ**
.4 **Characeæ**

589 Thallophyta

.1 **Lichenes**
.11 **Basidiolichenes**
.15 **Ascolichenes**
.16 Angiocarpæ
.17 Gymnocarpæ
.18 Gelatinosæ
.19 Byssaceæ
.2 **Fungi**
.21 **Carposporeæ**
.22 Basidiomycetes
.221 Gasteromycetes
.222 Hymenomycetes
.224 Tremellinæ
.225 Uredineæ
.227 Ustilagineæ
.229 Entomophthoreæ
.23 Ascomycetes
.231 Tuberaceæ
.233 Discomycetes
.235 Pyrenomycetes
.238 Gymnoasceæ
.24 **Oosporeæ**
.25 Peronosporeæ
.26 Saprolegnieæ
.27 **Zygosporeæ**
.28 Zygomycetes
.29 Myxomycetes, mycetozoa
.3 **Algæ**
.4 **Carposporeæ**
.41 Florideæ
.47 Coleochaeteæ
.5 **Oosporeæ**
.6 **Zygosporeæ**
.61 Conjugateæ
.67 Zoosporeæ
.7 **Protophyta**
.8 **Chlorophyllaceæ**
.9 **Achlorophyllaceæ**
.91 Saccharomycetes Yeast
.95 Schizomycetes Bacteria Microbes

For other relations see Bacteria in Relativ index following Tables

590 Zoology

590.1 Philosofy, classification .2 Compends .3 Dictionaries .4 Essays, lectures, etc. .5 Periodicals .6 Societies .7 Study and teaching, zoologic gardens, aquaria, museums .8 Collectiv works .9 History

591 Physiologic zoology

.1 **Physiology**
- .11 Circulation
- .12 Respiration
  - .121 Nature
  - .122 Dermal
  - .123 Aquivascular
  - .125 Branchial
  - .126 Tracheal
  - .127 Pulmonary
  - .129 Exhalation of aqueous vapor
- .13 Nutrition
  - .131 Acquisition of food
  - .132 Digestion of food
  - .133 Assimilation of food
  - .134 Growth
  - .135 Development
  - .136 Repair of waste
  - .137 Production of organic material
  - .138 Conditions of nutritiv activity
  - .139 Longevity, vitality
- .14 Secretion and excretion
  - .141 Mucous and sebaceous
  - .142 Sericeous
  - .143 Digestiv: salivary, gastric, pancreatic
  - .144 Odoriferous, sweet, etc.
  - .145 Poisonous, gall formation, caprification
  - .146 Mammary, spermatic
  - .147 Lacrimal
  - .148 Biliary
  - .149 Urinary and fecal
- .15 Variation See also 575.2 Evolution
  - .151 Polymorfic
  - .152 Geografic
  - .153 Heterofagic
  - .154 Polygoneutic
  - .155 Mimetic
  - .156 Sexual
  - .157 Colorational
  - .158 Hybrids
  - .159 Monstrosities

591.16 Generation
.161 Abiogenesis
.162 Parthenogenesis, neuters
.163 Metagenesis, pedogenesis, nurses
.165 Fission and gemmation
.166 Fecundation
.167 Hermaphrodites
.168 Vivipara
.169 Superfetation
.17 Histogenesis
.171 Development of sperm cells
.172 Development of germ cells, micropyle
.179 Reparation of wounds
.18 Nervous functions and sensation
.19 Physiologic chemistry
.2 Pathology
.3 Embryology
.33 Development of embryo
.34 Metamorphosis, larva, pupa, molting
.35 Hypermetamorphosis
.36 Production of sexes
See also 575.9 Origin of sexes
.4 Morfology Comparativ anatomy Homologies
.41 Circulatory organs
.42 Respiratory organs
.43 Nutritory organs
.44 Secretory and excretory organs
.45
.46 Generatory organs
.47 Motory organs
.48 Nervous system
.49 Integument Dermoskeleton Skeleton
.5 Habits and behavior
Including popular books; animal stories, except fiction
.51 Instinct Reason
.52 Abode Migration
.53 Food
.54 Seasons Hibernation
.55 Sociability
.56 Philoprogenitivness Breeding
.57 Means of protection Fascination
.58
.59 Other habits

591.6 **Economic**
.61 Usefulness
.62 In nature
.63 As food and medicin for man
.64 In chemistry and manufactures
.65 Noxiousness
.66 Offensiv animals
.67 Animals causing diseases [substances
.68 Injuring vegetable and animal products and inorganic
.69 Injuring living plants and animals Parasites
.7 **Organografy Descriptiv anatomy**
Subdivided like 591.4 Morfology
.8 **Histology** See also 578.9 Microscopic zoology
.9 **Geografic distribution of animals**
Subdivide like 930–999, using .92 for ocean, marine fauna

592 Invertebrates

593 Protozoans Radiates

.1 **Protozoans**
.11 Rhizopoda
.12 Foraminifera
.13 Heliozoa
.14 Radiolaria Polycystina
.15 Infusoria
.16 Flagellata
.17 Ciliata
.18
.19 Gregarinidæ
.2 **Radiates**
.3 Cœlenterata Acalepha (old use of term, now limited to 593.73)
.4 Sponges Porifera Spongia
.5 Cnidaria
.6 **Actinozoa Polyps Corals and sea anemones**
.61 **Rugosa Tetracorolla**
.62 **Alcyonaria Octocorolla**
.63 **Zoantharia Hexacorolla**
.64 Antipatharia
.65 Actinaria
.66 Madreporaria
.7 **Hydrozoa**
.71 Hydromedusæ
.72 Siphonophora
.73 Acalepha
.74 Calycozoa
.76 Marsupialida
.77 Discophora Jelly fish
.8 **Ctenophora Jelly fish**

593.9 **Echinodermata**
.91 Crinoidea, sea lilies
.92 Asteroidea, star fish
.93 Stelleridea
.94 Ophiuridea
.95 Echinoidea, sea urchins
.96 Holothuroidea, sea cucumbers
.97 Pedata
.98 Apoda
.99 **Enteropneusta**

594 Mollusks

.1 **Lamellibranchiata Bivalvs**
.2 **Scaphopoda**
.3 **Gastropoda Univalvs: snails, slugs** See also 632 Pests
.4 **Pteropoda Wingd shells**
.5 **Cephalopoda Squids and cuttle fish**
.6 **Molluscoidea**
.7 **Bryozoa (Polyzoa) Sea mats**
.8 **Brachiopoda Lamp shells**
.9 **Tunicata (Ascidia) Sea grapes**

595 Articulates

.1 **Worms Vermes** See also 632 Pests
.2 **Arthropoda**
.3 Crustacea
.31 Entomostraca Cyclops, shrimps, etc.
.32 **Phyllopoda**
.33 **Ostracoda**
.34 **Copepoda**
.35 **Cirripedia Barnacles, etc.**
.36 Malacostraca Sandbugs, crabs, lobsters, etc.
.37 **Arthrostraca**
.38 **Thoracostraca**
.39 Gigantostraca Trilobites
.4 **Arachnida Spiders Scorpions Mites** See also 632 Pests
.5 **Onychophora**
.6 **Myriopoda: centipedes, etc.** See also 632 Pests
.7 **Insects Insecta Hexapoda** See also 632 Pests
.71 Thysanura: bristletails, springtails, etc.
.72 Orthoptera: grasshoppers, etc.
.73 Pseudoneuroptera: dragon-flies, white ants, etc.
.74 Neuroptera: caddis flies, etc.
.75 Rhynchota: (hemiptera) bugs, etc.
.76 Coleoptera: beetles
.77 Diptera: flies, etc.
.78 Lepidoptera: butterflies, moths
.79 Hymenoptera: bees, wasps, etc.

596 Vertebrates

597 Fishes Pisces

.1 **Pharyngobranchii Lancelet**
.2 **Marsipobranchii Lampreys**
.3 **Elasmobranchii Sharks, rays, etc.**
.4 **Ganoidei Sturgeons, garpikes, etc.**
.5 **Teleostei: true bony fishes**
.6 **Batrachia (Amphibia)**
.7 **Ophiomorpha**
.8 **Anura Toads, frogs**
.9 **Urodela Salamanders**

598 Reptils Birds

.1 **Reptils**
.11 Lacertilia Lizards
.12 Ophidia Snakes
.13 Chelonia Turtles
.14 Crocodilia Crocodiles
.15 Ichthyopterygia
.16 Sauropterygia
.17 Anomodontia
.18 Pterosauria
.19 Dinosauria
.2 **Birds Aves**
.3 Grallatores, waders
.4 Natatores, swimmers
.5 Cursores, runners
.6 Rasores, scratchers
.7 Scansores, climbers
.8 Insessores, perchers
.9 Raptores, birds of prey

599 Mammals Mammalia

.1 **Monotremata Duckbild platypus**
.2 **Marsupialia Kangaroos, opossums**
.3 **Edentata Rodentia Insectivora Sloths Rodents Moles**
.4 **Cheiroptera Bats**
.5 **Cetacea Sirenia Whales, etc.**
.6 **Proboscidea Hyracoidea Elephants Hyrax**
.7 **Ungulata Carnivora Domestic mammals** See also 636
.8 **Quadrumana Apes**
.9 **Bimana Man** See also 573 Nat. hist. of man; 610 Medicin

Useful Arts

600 Useful arts

601 Filosofy Theories, etc.

602 Compends, outlines

603 Dictionaries, cyclopedias

604 Essays, lectures, addresses

605 Periodicals, magazines, reviews

606 Societies Fairs Exhibitions

Special exhibitions go with their topics. This is general only

607 Education Schools of technology

Divided like 940–999

608 Patents Inventions

609 History of useful arts in general

For its history, see each special department

610 Medicin

610.1 Pilosofy, theories .2 Compends . .3 Dictionaries, cyclopedias .4 Essays .5 Periodicals .6 Societies .7 Study and teaching .71 Medical schools; divided like 940-999 .72 Medical education of women .73 Training schools for nurses .77 Medical museums .8 Collections .9 History of medicin

611 Anatomy

See also 591.4 Comparativ anatomy; 591.8 Zoologic histology

SUMMARY

611.01 Theory
.012 Teratology
.013 Embryology
.014 Anthropologic anatomy
.016 Paleontologic "
.018 Histology
.019 Comparativ anatomy
.1 Circulatory system
.2 Respiratory "
.3 Digestiv "
.4 Glandular and lymphatic system
.6 Genito-urinary system
.7 Motor and integumentary system
.8 Nervous system
.9 Regional anatomy

.01 **Theory**
.0111 Notion, definition, value
.0112 Classification, division
.0114 Terminology

.012 **Teratology Anomalies**
To be subdivided like revised 617.3 Orthopedic surgery

.013 **Ontogeny Embryology**
See also physiology, 612.6 Reproduction and development

1 Germinativ cells
11 **Sperm**
12 Spermatogenesis See also 611.63 Male genital organs
15 **Ovum**
16 Ovogenesis See also 611.65 Female genital organs
17 Maturation Corpus luteum
2 Copulation Fecundation Fertilization
See also Fecundation, in botany 581.166; in zoology 591.3
3 Germ layers
31 **Segmentation Cleavage Blastula**
314 Blastula
32 **Gastrula**
33 **Primitiv streak**
34 **Blastopore** Primitiv mouth
35 **Archenteron** Primitiv gut
36 **Neurenteric canal**
37 **Entoderm, entoblast, hypoblast or endoderm**
38 **Ectoderm, epiblast or ectoblast**
39 **Mesoderm or mesoblast**
395 Mesenchyme
4 Entodermic, entoblastic or hypoblastic organs
41 **Notochord**
5 Ectodermic, epiblastic or ectoblastic organs
Epidermal layer
51 **Neural furrows, folds and canal or medullary plates**
See also 611.8 Nervous system

611.0136 Mesodermic organs
61 **Protovertebrae Mesoblastic somites, or primitiv vertebrae**
64 **Somatopleure, body wall, or musculocutaneous plate**
Outer lamella of lateral plates
65 **Splanchnopleure, fibrous wall of alimentary canal, or gut fiber plate**
Inner lamella of lateral plates
66 **Coelom, pleuroperitoneal or body cavity**
See also 611.389 Coelom
68 **Blood or primitiv vessel wall**
See also 611.0185 Histology of blood
7 External form of embryo
8 Fetal appendages
81 **Vitellin sac**
82 **Allantois**
83 **Amnion**
835 Amniotic fluid
84 **Chorion**
85 **Placenta** Umbilic cord
9 Experimental embryology
.014 **Anthropologic anatomy**
See also 572 Anthropology
.016 **Paleontologic anatomy**
See also 560 Paleontology
.018 **Histology**
Microscopic structure of organs
1 Cells Cytology
See also 576.3 Cytology For special cells see tissues to which they belong
11 **Protoplasm**
13 **Nucleus**
15 **Cell division** See also 611.01331
16 **Centrosome**
18 **Cilia Cellular membrane**
2 Connectiv tissue
Connectiv, cartilage and bone tissue together known as 'supporting tissues'
21 **Connectiv tissue cells**
22 **Connectiv tissue fibers**
23 **Ground substance or matrix**
24 **Reticular and adenoid tissue**
Areolar or interstitial tissue Reticulum
25 **Mucous or gelatinous tissue Mesenchyme**
See also embryology, 611.013395 Mesenchyme
26 **Adipose or fat tissue**
27 **Elastic or yellow fibrous tissue**
28 **Fibrous or white fibrous tissue**
29 **Pigment and pigment cells**
3 Cartilaginous tissue
True or hyalin cartilage, cartilage cells or chondroblasts For Elastic, yellow fibrocartilage, or reticular cartilage see 611.01827; for Fibrocartilage, fibrous or white fibrocartilage see 611.01828
34 Perichondrium

611.0184 Bone or osseous tissue

41 **Bone cells**

Osteoblasts Osteoclasts Howship's lacunae Myeloplaques of Robin

43 **Ground substance or matrix**

Spongiosum, spongy substance, or cancellated or spongy bone
Compact substance
Structure: lacunae, canaliculi, lamellae, Haversian canals
Volkmann's canals

44 **Periosteum**

Osteogenetic layer or cells; fibers of Sharpey

46 **Bone marrow or medulla**

5 Blood

See also physiology, 612.11 Blood
For sperm, see 611.01311 and 612.616

57 **Lymf**

See also 612.42 Lymphatic system

6 Muscular tissue Sarcoplasm

61 **Smooth, unstriped, unstriated or involuntary muscle**

62 **Striped, striated or voluntary muscle**

Sarcolemma

63 **Cardiac muscle**

64 Histology of muscular contraction

7 Epithelial tissue

72 **Glandular system**

73 **Mucous membranes**

74 **Serous " Endothelia**

8 Nervous tissue

81 **General structure Tectology Neurone**
Regeneration

82 **Nerv cells**

Protoplasm: Nissl's bodies; reticular, fibrillar, and canalicular structures; pigment. Nucleus. Centrosome. Cell membrane and division

83 **Prolongations and nerv fibers**

Cylinder-axis process; cylinder axis. Appendixes, varicosities

833 Neurilemma Schwann's sheath

834 Myelin Ranvier's nodes Medullary sheath

835 Adventitious sheath, perineurium Epineurium
Endoneurium

837 Dendrites

84 **Neuroglia** Ependymal cells, amyloids

86 **Terminations**

861 Motor terminations

866 Sensory "

.019 **Comparison with anatomy of lower animals**

Usually better clast in 591.4

Form divisions

.02 Compends

.03 Dictionaries Cyclopedias

.04 Essays Addresses

.05 Periodicals

.06 Societies Clubs

611.07 Teaching Methods
.072 Laboratories Dissection
.077 Pedagogic methods
.078 Instruments Apparatus
.08 Polygrafy
.09 History

.1 Circulatory system

.11 Pericardium

.12 Hart

.122 Left hart
.123 Right hart

.124 Ventricles
2 Right 5 Left

.125 Auricles
2 Right 5 Left

.126 Endocardium
3 Valvs
4 Auriculoventricular valvs
42 Mitral or bicuspid valvs
46 Tricuspid valvs
5 Valvs of aorta and of pulmonary artery
Sinuses of Valsalva
52 Aortic valvs
56 Pulmonary or semilunar valvs
6 Valvs of right auricle
2 Eustachian 5 Coronary

.127 Myocardium

.13 Arteries

.131 Pulmonary artery
2 Right branch 5 Left branch

.132 Aorta
1 Aortic arch Ascending aorta
2 Coronary arteries
2 Right 5 Left
5 Innominate artery

.133 Carotid arteries
1 Common carotid
2 External "
21 Superior thyroid
22 Lingual
23 Facial, or external maxillary
24 Ascending pharyngeal
25 Posterior auricular
26 Occipital
27 Superficial temporal
28 Internal maxillary
281 Sphenopalatin arteries
289 Middle or great meningeal
3 Internal carotid
32 Ophthalmic artery
33 Cerebral arteries, anterior and middle
For posterior cerebral artery see 611.1349

611.134 **Subclavian arteries**

1 Axillary

Superior thoracic, acromiothoracic, long thoracic or external mammary, alar thoracic, subscapular, posterior and anterior circumflex

2 Brachial or humeral

Superior and inferior profunda, nutrient, anastomotica magna, muscular

3 Forearm arteries

31 Radial

35 Ulnar

4 Hand arteries

5 Internal mammary Superior epigastric

6 Costocervical trunk

7 Thyrocervical trunk

8 Posterior, or dorsal scapular, transversa colli

9 Vertebral Basilar, posterior cerebral, circle of Willis

.135 **Thoracic aorta and branches**

1 Parietal branches

4 Intercostal "

Subcostal, diaframatic, vas aberrans

5 Visceral branches

Bronchial, esofageal, pericardial, mediastinal

.136 **Abdominal aorta and branches**

1 Inferior frenic

2 Lumbar

3 Middle sacral; caudal

4 Celiac axis

Celiac mesenteric, umbilic mesenteric or omphalomesenterica

41 Hepatic

Pyloric, gastroducdenal, superior pancreaticoduodenal, right gastro-epiploic, cystic

42 Splenic, lienalis

Pancreatic, vasa brevia, left gastro-epiploic

43 Left gastric, gastric, or coronary gastric

5 Mesenteric

51 Superior mesenteric

Rami intestini tenuis, or branches of small intestin; inferior pancreaticoduodenal; middle, right and ileocolic; terminal and appendicular branches

52 Inferior mesenteric

Left colic, sigmoid, superior hemorrhoidal

6 Middle suprarenal

7 Renal

8 Spermatic

9 Ovarian

.137 **Iliac arteries**

1 Common iliac

2 Hypogastric, or internal iliac

3 Parietal branches

4 Lateral sacral

5 Obturator

611.1376 Gluteal
- 61 Superior gluteal
- 65 Inferior gluteal Sciatic
- 7 Visceral branches
  - 71 Umbilic, superior vesical
  - 72 Inferior vesical and deferential
  - 73 Uterin and vaginal
  - 74 Middle hemorrhoidal
  - 75 Internal pudic
- 8 External iliac artery
  - 81 **Inferior epigastric, or deep epigastric**
  - 82 **Deep circumflex iliac**
  - 83 **Femoral**
  - 84 **Deep femoral, profunda femoris**
    - 2 External circumflex 5 Internal circumflex
  - 85 **Arteria genu suprema, or anastomotica magna**
  - 86 **Popliteal**
  - 87 **Anterior tibial**
- 9 Tibiofibular trunk, truncus tibioperoneus
  - 91 **Posterior tibial**
  - 92 **Peroneal**
  - 93 **Arteries of foot**
    - 94 Dorsalis pedis
      - Tarsal, metatarsal, dorsal interosseous, dorsalis hallucis
    - 95 Plantar

.14 Veins
- .141 **Pulmonary**
- .142 **Cardiac or venae cordis**
- .143 **Subintestinal, or fetal portal vein**
- .144 **Cardinal**
- .145 **Superior vena cava**
  - Innominate veins Veins of neck
  - 1 Internal jugular vein
    - Thyroid veins
    - 11 **Cerebral veins** **Sinuses of dura mater**
    - 13 Emissary vein
    - 15 **Superior ofthalmic**
    - 16 **Inferior** "
    - 17 **Facial**
  - 2 External jugular
  - 3 Posterior external jugular and vertebral
  - 4 Subclavian and axillary
    - 41 **Deep veins of upper extremity**
    - 46 **Superficial veins of upper extremity**
      - 2 Basilic 5 Cephalic
  - 6 Azygos
  - 7 Spinal veins

611.146 **Inferior vena cava**
1 Lumbar veins
2 Renal "
3 Suprarenal "
4 Hepatic "
5 Inferior frenic
6 Spermatic
Pampiniform or spermatic plexus
7 Ovarian
.147 **Iliac veins**
1 Hypogastric or internal iliac
Hemorrhoidal plexus
2 External iliac
3 Femoral Popliteal
33 Long, or internal saphenous
37 Tibial veins
38 Short, or external saphenous
39 Veins of foot
.149 **Portal vein**
1 Superior mesenteric
2 Inferior "
3 Ventricular coronary, gastric, or venae gastricae Pyloric
4 Splenic, or lienalis
5 Cystic
7 Fetal hepatic veins Omphalomesenteric
Ductus venosus Aranzii, or sinus venosus large vein passing directly thru fetal liver
8 Umbilic
.15 Capillaries
.2 **Respiratory system**
.21 Nose
See also 611.86 Organs of smell
.211 **External nose**
.22 Larynx
.221 **Cartilages**
Epiglottis, thyroid, arytenoid, cuneiform, cornicular
.223 False vocal cords
.224 Ventricles
.225 **Cavity of larynx** **Glottis**
True vocal cords Rima glottidis or chink of glottis
.227 Ligaments
.229 **Muscles of larynx**
.23 Trachea and bronchi
.231 **Trachea**
.233 **Bronchi**
See also 611.24 below
.24 Lungs, or pulmones
.25 Pleura
.26 Diafram
.27 Mediastinum
.28 Gills
See comparativ anatomy, 591.42 Respiratory organs
.29 Other organs, including air bladder swimming bladder See 591.42

611.3 **Digestiv system**

.31 Mouth, buccal cavity or cavum oris

.313 **Tung**

5 Papillae

.314 **Teeth**

.315 **Palate, palatum, or roof of mouth** **Soft palate, or velum pendulum palati** **Uvula**

.316 **Salivary and other glands of mouth**

1 Submaxillary and sublingual glands

5 Parotid glands Stenson's duct

.317 **Lips**

.318 **Cheeks**

.32 Pharynx Esofagus

.321 **Pharynx**

.322 **Tonsils**

.323 Faucial tonsils

.324 Pharyngeal or Luschka's tonsils

.325 Lingual, buccal or 4th tonsil

.326 Other tonsils: laryngeal, nasal

.327 **Topografy or regions of pharynx**

1 Nasal or epipharynx

2 Oral, buccal, or meso pharynx

3 Laryngeal or hypo pharynx

4 Back

5 Sides

.329 **Esofagus**

1 Cervical 2 Thoracic section 3 Abdominal section including diaframatic

.33 Stomach

Gastric glands: true, oxyntic or peptic; pyloric; cardiac

.333 Cardia

.334 Pylorus

.335 Greater curvature, or lower convex surface

.336 Lesser " " upper concave "

.34 Intestin

.341 **Small intestin**

2 Meckel's diverticulum

3 Peyer's patches, or tonsillae intestinales

4 Plicae circulares

5 Glands of Lieberkühn and solitary glands

.342 Duodenum Brünner's glands

.343 Jejunum

.344 Ileum

.345 **Cecum**

1 Ileocecal valv

2 Vermiform appendix

.347 **Large intestin**

Including cecum Appendices epiploicae

.348 Colon

2 Ascending

3 Transverse

4 Descending

.349 Sigmoid flexure

.35 Rectum Anus

.351 Rectum Houston's or rectal valvs

.352 Anus

.353 Perineum See also 611.96

611.36 Liver
.361 Bile ducts Bile capillaries or canaliculi
.362 Hepatic duct
.366 Cystic duct Gall bladder
.367 Common bile duct, or ductus communis choledicus
Process and ampulla of Vater

.37 Pancreas
.373 Pancreatic duct, or canal of Wirsung
.375 Duct of Santorini
.376 Glandular portion
.377 Interalveolar cell-ilets, intertubular cell masses, ilands of Langerhans

.38 Peritoneum Mesentery Omentum Cœlom
.381 **Peritoneum**
2 Parietal 5 Visceral
382 Omentum, epiploon
Lesser or gastrohepatic, great or gastrocolic, gastrosplenic
.383 Mesentery
Transverse and sigmoid mesocolon; mesorectum; mesoappendix
.384 Retroperitoneal fossae
.389 Coelom or pleuroperitoneal cavity

.39 Adipose bodies

.4 **Glandular and lymfatic system**
Put glands of any special system with that system. See 611.36, Liver; 611.61, Kidneys; 611.316, Salivary glands; 611.69, Mammary glands. But class here chromaffin tissue in general

.41 Spleen
.415 Malpighian bodies
.418 Capsule of spleen

.42 Lymfatic vessels or lymfatics and capillaries
For lymfatics of an organ or tissue, see name of organ or tissue
Lymfatic spaces
.421 **Lymfatics by region**
1 Head
2 Face
3 Neck
4 Thorax
5 Abdomen
6 Pelvic region
7 Upper extremity
2 Arm 4 Forearm 6 Hand
8 Lower extremity
2 Thigh 4 Leg 6 Foot
9 Tail
.423 Receptaculum chyli or cistern of Pecquet
.424 **Thoracic duct (left)**
.425 **Right lymfatic duct**
.426 Lacteals
5 Villi

.43 Thymus
.435 Accessory thymus

.44 Thyroid gland
.445 Accessory or aberrent thyroids
.447 Parathyroids

.45 Suprarenal capsules or bodies
Accessory suprarenal capsules

611.46 Lymfatic glands
.461 Glands of hed
.462 " " face
Internal maxillary Submental
.463 Glands of neck
1 Suboccipital or occipital
2 Mastoid, retroauricular or postauricular
6 Retropharyngeal
7 Cervical or jugular
8 Subclavian
.464 Glands of thorax
1 Diaframatic
2 Mammary lymf
3 Intercostal
4 Mediastinal
.465 Abdominal lymf glands
1 Iliac and hypogastric: sacral, lumbar
2 Abdomino-aortic
21 Juxta-aortic
22 Preaortic: gastric, aplenic, hepatic
23 Retroaortic
4 Glands of small intestin: mesenteric
6 Glands of large intestin: colic, rectal
.467 Lymf glands of upper extremity
1 Axillary
2 Epitrochleal or supratrochleal and other glands
5 Pectoral
.468 Lymf glands of lower extremity
1 Inguinal
2 Femoral
3 Popliteal
4 Anterior tibial
.47 Carotid gland or body
.48 Coccygeal gland
.6 Genito-urinary system Brests
.61 Kidneys
Class here urinary organs in general
.615 Uriniferous tubules
.617 Ureter
.618 Pronephros
.619 Mesonephros
.62 Bladder Urethra
.621 Bladder
3 Urethral openings
.622 Ligaments: urachus
For pedicle of allantois see also embryology, 611.01382
.623 Urethra
For female urethra see 611.674
1 Prostatic part
Verumontanum or caput gallinaginis
Sinus pocularis or uterus masculinus
2 Membranous part
3 Spongy, cavernous or penial part
4 Lacunae Littré's glands
.627 Bulbo-urethral or Cowper's glands
.629 Urogenital sinus

611.63 Male genital organs
.631 Testicles or testes
1 Seminiferous tubules
Straight tubules, tubuli recti or vasa recta; coni vasculosi or vasa efferentia
3 Tunics of testes: vaginalis, albuginea, vasculosa
5 Mediastinum testis or Highmore's body; rete testis of Haller or Haller's network
.632 Epididymis
.633 Appendixes of testes
Vasa aberrantia; hydatids of Morgagni, or pedunculated bodies; paradidymis or organ of Giraldès
.634 Vas deferens
.635 Ejaculatory ducts
.636 Seminal vesicles
.637 Prostate
.638 Scrotum
4 Dartos
.639 Spermatic cord
Infundibula; intercolumnar or spermatic and cremasteric fascia
.64 Penis
.641 Root
.642 Body Prepuce
.643 Glans penis, or acorn
.644 Meatus
.645 Corpora cavernosa
.646 Corpus spongiosum
.647 Bulb of urethra
.65 Female genital organs Adnexa
.651 Ovaries
1 Medullary substance Stroma
2 Graafian follicles
Capsule of ovum, membrana granulosa, discus proligerus
3 Cortical layer
.652 Corpus luteum or corpora lutea
See also embryology 611.01317
.656 Fallopian tubes
.66 Uterus
.662 Endometrium
.664 Cornua
.665 Body or parenchyma
.666 Neck, cervix
.667 Ligaments
For placenta see embryology, 611.01385 and gynecology 618.36
2 Broad or lateral
3 Round Canal of Nuck
4 Uterosacral and uterolumbar Pouch of Douglas
Posterior ligaments
6 Epoophoron, parovarium, or organ of Rosenmüller Gärtner's duct
7 Paroophoron
.669 Müller's duct Oviducts of lower vertebrates
Class oviducts of lower vertebrates in 591.46 except in com- with human organs
.67 Vagina Vulva
.671 Vagina
.672 Hymen Vestibulum
.673 Vulva
1 Mons veneris 2 Labia majora 3 Labia minora
.674 Female urethra
.675 Clitoris Bulbus vestibuli
.677 Bartholini's, or vulvo-vaginal glands
.69 Brests
.691 Nipple and areola Glands of Montgomery
.692 Acini, acinous glands
.263 Galactoforous or lactiferous ducts

611.7 **Motor and integumentary systems**

.71 Osteology Bones Skeleton

.711 **Spinal colum**

1 Cervical vertebrae
2 Atlas
3 Axis or epistropheus
5 Thoracic or dorsal vertebrae
6 Lumbar vertebrae
7 Sacrum or sacral vertebrae
8 Coccyx

.712 **Ribs Thorax**

5 Costal cartilages

.713 **Sternum or brest bone**

Menubrium; gladiolus; zyphoid or ensiform

.714 **Bones of hed Skull**

1 Calvaria or cerebral cranium
Sutures, fontanelles, supernumerary or Wormian bones
3 Base of cranium
6 Orbits
7 Nasal cavity Inferior conchae

.715 **Cranium, cranial bones**

1 Occipital
2 Sphenoid
3 Temporal
4 Parietal
5 Frontal
6 Ethmoid
7 Lacrimal
8 Nasal
9 Vomer

.716 **Bones of face or visceral cranium**

1 Maxillary, upper jaw or superior maxillary
2 Palate
3 Malar or zygomatic
4 Mandible, lower jaw or inferior maxillary
41 Alveolar limbus
43 Ramus of mandible
5 Hyoid
6 Skeleton branchiae Better class in 591.4

.717 **Bones of upper extremity**

1 Scapula, shoulder blade
Shoulder girdle as a whole Acromion
2 Clavicle or collar bone
3 Coraçoid process
4 Humerus
5 Radius
6 Ulna
7 Carpus, carpal bones or wrist bones
71 Scaphoid or navicular
72 Semilunar, or os lunatum
73 Cunciform, or os triquetrum
74 Pisiform
75 Trapezium, or os multangulum majus
76 Trapezoid or " " minus
77 Os magnum, or os capitatum
78 Unciform or hook or os hamatum
79 Central
8 Metacarpus, metacarpal bones

611.7179 Phalanges of hand
91 Basilar or proximal phalanges
93 Middle phalanges
95 Ungual or distal phalanges
99 Sesamoid

.718 Bones of lower extremity
For pelvis see 611.96

1 Hip bone, or os coxae or innominatum
Acetabulum or cotyloid cavity
11 Ilium
12 Ischium
13 Pubis

4 Femur
45 Patella See also 611.7283 Knee joint and 611.983 Knee

5 Tibia

6 Fibula

7 Tarsus
71 Astragalus, ankle bone, or talus
73 Calcaneum, heel, or os calcis
75 Cuboid
76 Scaphoid or navicular
78 Cuneiform or wedge bones
Internal or first, middle or second, external or third cuneiform

8 Metatarsal bones

9 Phalanges of foot
91 Basilar or proximal phalanges
93 Middle or second "
95 Ungual or third "
99 Sesamoid bones

.72 Ligaments Joints

.721 Articulations of vertebrae and of cranium
1 Occipito-atlantal and occipito-axial
3 Intervertebral articulations
5 Atlanto-axial or atlo-axoid and atlanto-odontoid
6 Lumbosacral
7 Sacrococcygeal
8 Coccygeal

.722 Costovertebral articulations

.723 Costosternal, costochondral, chondrosternal, interchondral, intersternal

.724 Jaw joint, temporomandibular, temporomaxillary or mandible joint

.727 Articulations of upper extremity
1 Sternoclavicular joint and costoclavicular or rhomboid ligament

2 Articulations of shoulder
21 Shoulder joint
24 Acromioclavicular or scapuloclavicular joint Coracoclavicular and coracoacromial ligaments

3 Elbow joint
31 Humeroulnar joint
33 Humeroradial joint
34 Superior radioulnar or radioulnaris proximalis

4 Wrist joint
41 Inferior or distal radioulnar joint
44 Radiocarpal

611.7275 Intercarpal articulation
54 Middle carpal joints
6 Carpometacarpal articulations
7 Intermetacarpal "
8 Metacarpophalangeal "
9 Phalangeal or finger joints

.728 **Articulations of lower extremity**
1 Articulations of pelvis
Sacroiliac and pubic, or symphysis ossium pubis; sacrosciatic ligament or symphysis sacrococcygea
2 Hip joint, or articulo coxae
Iliofemoral, Y or Bigelow's ligament; ligamentum teres
3 Knee joint
31 Crucial or femorotibial ligaments
33 Semilunar fibrocartilages
34 Anterior or ligamentum patellae
38 Tibiofibular ligaments
4 Ankle joint
41 Inferior tibiofibular joint
44 Tibiotarsal ligaments
5 Intertarsal ligaments
51 Astragalocalcaneal, calcaneoastragaloid or talocalcaneum; astragaloscaphoid; calcaneoscaphoid or calcaneonavicular ligaments
53 Calcaneocuboid ligaments
54 Mediotarsal articulations
55 Cuboidcuneiform "
56 Scaphoidcuboid or cubonavicularis, scaphoidcuneiform or cuneonavicularis articulations
58 Intercuneiform articulations
6 Tarsometatarsal articulations
7 Intermetatarsal "
8 Metatarsophalangeal "
9 Toe joints

.729 **Classes of joints**
2 Synarthrosis or fixt joint
4 Amphiarthrosis or mixt joint
6 Diarthrosis or movable joint
61 Arthrodia or gliding joint
62 Condylarthrosis or knuckle joint
63 Enarthrosis or ball and socket joint
64 Ginglymus or hinge joint
65 Trochoid or pivot joint

.73 Muscular system Myology

.731 **Dorsal muscles**
1 Spinohumeral or humerospinal muscles
11 Trapezius
12 Latissimus dorsi
13 Rhomboid
14 Levator scapulae
2 Spinocostal or serrati posteriores
3 Spinodorsal
Sacrospinalis, lumbosacral, erector spinae, transversalis cervicis
31 Iliocostal
36 Longissimus dorsi
4 Splenius and complexus

611.7315 Spinalis dorsi
6 Transversospinales
61 Semispinalis
65 Multifidus
68 Rotatores
7 Breves spinae
71 Interspinales
76 Intertransversarii
8 Oblique muscles of hed
9 Recti capitis posterior and lateralis

.732 Muscles of hed

See also 611.7318–9 and 611.7337–8

1 Platysma myoides
2 Occipitofrontalis or epicranial
3 Muscles of nose
Pyramidalis nasi, compressor nasi, compressor narium minor, depressor alae nasi or myrtiform, dilatores nasi
4 Muscles of ear Attrahens, attollens, retrahens
5 Palpebral and orbital muscles of eye
Orbicularis palpebrarum, or sphincter of eyelids; corrugator supercilii; levator palpebrae; levator palpebrae superioris; tensor tarsi
See also 611.8461
6 Buccal muscles
Buccinator, orbicularis oris, levator anguli oris, levatores labii superioris, levator labii superioris alaeque nasi, zygomatic, levator labii inferioris, levator menti, depressor labii inferioris or quadratus menti; depressor angulae oris or triangularis menti; risorius, or Santorini's muscle
7 Muscles aiding mastication and deglutition
71 Masseter
72 Temporal
73 Pterygoid
75 Muscles of palate and pharynx
76 Palate
Levator palati, tensor palati, azygos uvulae, palatoglossus, palatopharyngeus, salpingopharyngeus
78 Pharynx
Inferior, superior and middle constrictors, stylopharyngeus

.733 Muscles of neck

1 Sterno-cleido-mastoid
2 " hyoid
3 Omohyoid
4 Sternothyroid
5 Thyrohyoid
6 Longus colli
7 Rectus capitis anticus major, or longus capitis
8 Rectus capitis anticus minor, or rectus capitis anterior
For rectus capitis lateralis see 611.7319
9 Scaleni: anticus, medius and posticus

.734 Hyoid muscles

Depressors of lower jaw or elevators of hyoid. For tung see 611.313
1 Digastric
4 Stylohyoid
6 Mylohyoid
8 Geniohyoid

611.735 **Thoracic muscles**

1 Pectoralis major
2 " minor
3 Subclavius
4 Levatores costarum
5 Serratus magnus or serratus anterior
6 Intercostal
7 Subcostal
8 Transversus thoracis or triangularis sterni

.736 **Abdominal and coccygeal muscles**

1 Rectus abdominis
2 Pyramidalis abdominis
3 Oblique abdominal
6 Cremaster
7 Transversalis or transversus abdominis
8 Quadratus lumborum
9 Coccygeal

.737 **Muscles of upper extremity**

1 Shoulder or axillary

11 Deltoid
12 Supraspinatus
13 Infraspinatus
14 Teres minor
15 Teres major
16 Subscapular

2 Arm

21 Biceps brachii, or biceps flexor cubiti
22 Coracobrachialis
23 Brachialis (anticus)
24 Triceps brachii, or triceps extensor cubiti
25 Anconeus

3 Forearm

4 **Pronator muscles**

41 Pronator radii teres
45 " quadratus

5 **Flexors of forearm**

51 Flexor carpi radialis
52 Palmaris longus
53 Flexor carpi ulnaris
54 " digitorum sublimis
55 " " profundus
56 " pollicis longus

6 **Extensors and supinators**

61 Brachioradialis
62 Extensor carpi radialis longus
63 " " " brevis
64 " " ulnaris
65 Extensors of fingers, or extensores digitorum
66 Supinator
67 Abductor pollicis longus
68 Short and long extensors of thum, or extensores pollicis brevis et longus
69 Extensor of index finger, or extensor indicis proprius

7 Muscles of hand

71 Lumbricales
72 Palmaris brevis
73 Short abductor of thum, or opponens pollicis
Short flexor of thum, or flexor brevis pollicis. Adductor pollicis
76 Muscles of little finger
Abductor digiti quinti (or minimi) brevis; opponens digiti quinti; short flexor of 5th or little finger, or flexor brevis digiti minimi
79 Interosseous muscles

611.738 **Muscles of lower extremity**

1 Hip and nates

11 Iliopsoas

12 Iliacus

13 Psoas major and minor

14 Gluteal

15 Tensor fasciae latae, tensor fasciae femoris or tensor vaginae femoris

16 Piriformis

17 Obturator internus

18 Gemelli or gemini

19 Quadratus femoris

.7382 Thigh muscles

21 Sartorius

22 Quadriceps femoris or quadriceps extensor femoris

Rectus femoris, vastus externus, vastus internus and crureus or vastus intermedius

225 Articularis genu, or subcrureus

23 Pectineus

24 Adductors: longus, brevis, magnus and minimus

25 Gracilis

26 Obturator externus

27 Biceps femoris or biceps flexor cruris

28 Semitendinosus

29 Semimembranosus

3 Leg

4 **Anterior muscles**

41 Anterior tibial or tibialis anticus

42 Extensor digitorum longus

43 " hallucis " or proprius

46 Peronaeus tertius

5 **Other muscles of leg**

51 Peronaeus longus

52 " brevis

53 Gastrocnemius

54 Soleus, triceps surae

55 Plantaris

56 Popliteus

57 Posterior tibial

58 Flexor digitorum longus

59 " hallucis "

7 Muscles of foot

8 **Back of foot**

Extensor brevis digitorum

Sole of foot or plantar region

Adductor hallucis (obliquus and transversus), adductor digiti minimi, abductor hallucis; flexor hallucis brevis, flexor digitorum brevis, flexor accessorius, flexor digiti minimi brevis, lumbricales, interosseous muscles

.739 Electric organs Better class in comparativ anatomy

.74 Tendons Fasciae

May be divided like 611.73; e. g. Achilles tendon 611.74854

.75 Bursae Sheaths of tendons

.751 **Hed**

.752 **Neck**

.753 **Back**

.754 **Shoulder**

.757 **Upper extremity**

.758 **Lower "**

.76 Connectiv tissue See also 611.0182 Histology of connectiv tissue

611.77 Skin Glands of skin
.771 Cuticle, scarf skin or epidermis
Horny and Malpighian layers
.772 Glands of skin
.773 Sebaceous
.774 Sudoriferous or swet
.775 Ciliary glands
.776 Circumanal "
.777 Ceruminous "
.778 Corium, cutis vera, true skin or dermis
Reticular and papillary layers
5 Pigmentation
.779 Subcutaneous areolar tissue, tela subcutanea or paniculus adiposus
.78 Hair, nails, scales, fethers, etc.
For teeth see 611.314 Fur, scales, fethers, horns, etc. better clast in comparativ anatomy
.781 Hair
.785 Scales
.786 Nails
.787 Fethers
.788 Horns
.8 Nervous system Sense organs
.81 Encephalon Brain
Mesurement Weight
.811 General structure of brain and cerebrospinal axis
.812 Localizations
.813 Telencephalon, or endbrain Prosencephalon, or forebrain Hemisferes
Longitudinal and transverse fissure
1 Pallium, brain mantle or cerebral cortex
11 Frontal lobe
Broca's convolutions
12 Parietal lobe Central fissure, sulcus centralis, or Rolando's groove
Opercula insulae
13 Temporal or temporosphenoid lobe Fissure of Sylvius, or fissura cerebri lateralis
14 Limbic lobe Gyrus fornicatus
Hippocampal gyre, or gyrus hippocampi Callosal gyre Dentate gyre, or fascia dentata hippocampi Fasciola Fimbria, taenia fornicis or taenia hippocampi Hippocampus major or cornu ammonis Dentate fissure, hippocampal sulcus, or subiculum cornu ammonis Callosomarginal fissure Amygdala, almond nucleus, or amygdaloid tubercle
15 Occipital lobe
Occipital or parieto-occipital fissure
16 Paracentral gyre or lobule
17 Cuneus Calcarin fissure
18 Precuneus, or quadrate lobe
19 Insula, iland of Reil, central lobe, or gyri operti
2 Striatum, striate body, or corpus striatum
Basal ganglion of hemisphere
21 Caudatum, taild nucleus, or nucleus caudatus
22 Lenticula, lenticular nucleus, or nucleus lentiformis
Globus pallidus, or pallidum, and putamen
23 Claustrum
25 Tenia, taenia semicircularis, stria terminalis or corneae

611.8133 Rhinencephalon or rhinencefal
Olfactory bulb tract, substantia perforata anterior, precribrum, etc.
Broca's area, or parolfactoria

7 Centrum ovale majus (of Vieussens) Centrum semiovale Internal capsule

8 Paraceles or lateral ventricles

9 Callosum or corpus callosum Fornix
Septum pellucidum or lucidum, or septum Cavum septi pellucidi, 5th ventricle or pseudocele

.814 Diencephalon, diencefal, thalamencephalon or interbrain

1 Hypothalamus or subthalamic tegmental region
Nucleus of Luys or nucleus hypothalamicus
Postcommissure or posterior commissure

2 Corpora albicantia, albicans, or corpus mammillare
Bundle of Vicq-d'Azyr, or fasciculus thalamomammillaris

3 Hypophysis
Hypophysis cerebri, pituitary body or somatic brain
Tuber or tuber cinereum Infundibulum

4 Optic tract Optic chiasm or commissure

5 Epithalamus Pinea, pineal body, conarium or epiphysis Habenula, habena, or pedunculus conarii

6 Geniculate bodies, or geniculum Metathalamus

7 Thalamus or optic thalamus
Thalamic radiation: ansa peduncularis, ansa lenticularis
For Nissl's bodies see 611.01882

8 Third ventricle, or diacele
Porta or foramen of Monro, or foramen interventriculare

.815 Mesencephalon, midbrain or mesencefal

3 Quadrigeminum
Corpora or tubercula quadrigemina Quadrigeminal arms

4 Pedunculi or crura cerebri, crura or crus

41 Substantia nigra (Sömmering) or intercalatum
See also nucleus of Luys 611.8141

42 Foot of peduncle, basis or pes pedunculi, or crusta

43 Tegmentum

44 Red nucleus, nucleus ruber, or rubrum

5 Nuclei of oculomoto and trochlear nervs

6 Aqueduct of Sylvius, aqueductus cerebri, or mesocele

.816 Isthmus rhombencephali

3 Valv of Vieussens, or superior medullary velum

4 Superior cerebellar peduncles
Prepeduncles, brachium conjunctivum cerebelli, or crura ad cerebrum
Lemniscus: mesial and lateral fillets

611.817 **Metencephalon or epencephalon, epencefal or hindbrain**
Pons (Varolii)
1 Cerebellum
11 Lobes, fissures, valv of Tarinus, velum medullare posterius, or kilos
13 Cerebellar centers of gray matter Nuclei olivaris superiores: roof nuclei, dentate nuclei, dentatum, etc.
15 White substance of cerebellum Arbor vitae
3 Pons Varolii Tegument For reticula see 611.8226
4 Nuclei of trigeminus system
41 Nucleus motorius or motor nucleus of 5th nerv
42 Nucleus of spinal tract or sensory nucleus of 5th nerv
5 Nucleus or nidus of abducent nerv
6 " " " " facial nerv
68 Salivary nucleus
7 Cochlear nidi or nucleus of cochlear nerv
Ventral root of 8th nerv
76 Trapezium or trapezoid body
77 Nucleus of superior olivary body
78 Acoustic striae, striae acusticae or medullares
8 Vestibular nidi or nucleus of vestibular nerv
Dorsal root of 8th nerv
.818 **Myelencephalon, metencefal, medulla, bulb or afterbrain, postoblongata or medulla oblongata**
1 Pyramids Pyramidal decussation
2 Dorsal colum, posterior fibers, or funiculi dorsales
Arcuate fibers Restis or restiform body
Fasciculus of Rolando, cuneatus and gracilis
3 Lateral fibers Oliva or olivary bodies
Anterolateral ground bundle or fasciculus proprius anterolateralis; anterolateral cerebellar tract or fasciculus anterolateralis superficialis
4 Interolivary stratum, fillet or lemniscus
5 Fourth ventricle or metepicele
Metapore or foramen of Magendie Foramina of Luschka, Key and Retzius Obex Lingula Calamus scriptorius
6 Nucleus of glossopharyngeal system Solitary tract
7 Nuclei of vagus and accessory nervs
75 Ambiguous nucleus
78 Dorsal nucleus of vagus
9 Nucleus of hypoglossal system or hypoglossal nidus
.819 **Meninges and cerebral meninges**
1 Pia mater or pia
2 Telae choroideae, velum interpositum, choroid plexus
3 Arachnoid villi
Glandulae Pacchioni, Luschka's villi or granulations
4 Cisterns, or subarachnoid cisterns
5 Dura mater, or dura Tentorium and falx cerebelli
Falx cerebri

611.82 Spinal cord, or myel

.821 Enlargements or intumescentia; general structure

2 Cervical cord or myel, pars cervicalis
3 Thoracic or dorsal cord or myel, pars thoracalis
4 Lumbar cord or myel, pars lumbaris
5 Sacral cord
6 Terminal cone, or conus (medullaris) Filum Cauda (equina)
8 Grooves and fissures, sulci and fissurae

.822 Gray substance or matter, entocinerea or cinerea Gray cornua or colum

1 Anterior or ventral colum or cornu or funiculus anterior
2 Posterior or dorsal " " "
3 Clarke's colum, nucleus dorsalis or Stilling's nuclei
4 Gelatinosa or gelatinous matter, substantia cinerea gelatinosa Substantia spongiosa
6 Reticula or formatio reticularis

.823

.824 White substance, or alba

.825 Anterolateral colum

Anterior plus lateral colums

2 **Pyramidal tract or bundle or fasciculus cerebrospinalis**

Direct or uncrost tract, fasciculus cerebrospinalis anterior, or fasciculus

Crost pyramidal tract, or cerebrospinalis lateralis

3 Direct cerebellar tract, or dorsolateral cerebellar tract
4 Gower's tract, cerebellar path of anterior funiculus, or fasciculus anterolateralis superficialis ascendens or anterolateral ascending cerebellar tract
5 Fasciculus sulcomarginalis, or marginal tract of Spitzka and Lissauer
6 Lateral colum or anterolateral descending cerebellar tract or colum of Marchi and Lowenthal
7 Anterolateral ground bundle or fasciculus proprius anterolateralis
8 Anterior or ventral commissure

.826 Posterior or dorsal colums

1 Ascending fibers

Tracts of Burdach (posterolateral or cuneatus) and of Goll (posteromedian or gracilis) and fasciculus of Rolando

5 Descending fibers Comma tract in Burdach's colum
8 Radicular fibers
9 Posterior or dorsal commissure

.827 Roots of nervs

Works tracing nerv roots into spinal cord; for macroscopic studies on nerv roots see 611.832

1 Anterior or ventral roots
2 Posterior " dorsal "

.828 Spinal canal Ependyma or endyma

Rhomboidal sinus Reissner's fibers

.829 Spinal membranes, or meninges spinales

1 Spinal pia mater
3 " arachnoid
5 " dura mater

611.83 Periferal nervous system Nervs

.831 **Cranial nervs and ganglia**

1 **Olfactory, or 1st cranial**
2 **Optic, or 2d cranial**
3 **Motoroculi, 3d cranial or oculomoto**
4 **Trochlear, pathetic, or 4th cranial**
5 **Trifacial, trigeminus, or 5th cranial**
Large or great superficial petrosal branch
52 Ofthalmic nerv of Willis
54 Superior maxillary nerv or maxillary nerv
542 Infraorbital branch
56 Mandibular or inferior maxillary
6 **Abducent, external motoroculi, oculomoto, or 6th cranial**
7 **Facial, 7th cranial nerv, or portio dura**
73 Other collateral branches
74 Terminal branches
75 Pars intermedia of Wrisberg (nervus intermedius) **Chorda tympani**
8 **Auditory, acoustic or 8th nerv**
81 Cochlear nerv or path, or central auditory path
85 Vestibular path or nerv
9 **Glossopharyngeal or 9th nerv**
91 **Pneumogastric, vagus or 10th nerv**
911 Parietal branches: auricular and lateral nervs
914 Pharyngeal branches
915 Superior cardiac nervs
916 Superior laryngeal nerv
917 Inferior or recurrent laryngeal nerv
918 Pulmonary branches
919 Esofageal and gastric branches
92 **Spinal accessory or 11th nerv**
93 **Hypoglossal or 12th nerv**

.832 **Spinal nervs**

Including in 5–6 microscopic studies on nerv roots. See also 611.827
1 Dorsal or posterior branches
2 Ventral or anterior "
5 Dorsal or posterior roots See also 611.8272
6 Ventral or anterior " See also 611.8271

.833 **Cervical nervs**

1 **Dorsal or posterior branches of cervical nervs** **Small and large sub-occipital nervs**
2 **Ventral anterior branches of cervical nervs**
3 **Cervical plexus**
32 Large auricular nerv
33 Cutaneous nerv of neck
34 Supraclavicular nervs
36 Frenic or internal respiratory nerv of Bell
4 **Brachial plexus**
41 Supraclavicular part
47 Infraclavicular part
5 **Median nerv**
6 **Ulnar or cubital nerv**
7 **Radial nerv**
Musculo-spiral
8 **Musculocutaneous nerv**
9 **Antibrachii ulnaris**
Cutaneus brachii medialis, or nerv of Wrisberg

.834 **Thoracic nervs**

1 Posterior branches
2 Anterior " Intercostal nervs

611.835 Lumbar and sacral nervs
- 1 **Posterior branches**
- 2 **Anterior "**
- 3 **Lumbosacral plexuses**
- 4 Lumbar plexus
- 41 Great iliohypogastric nerv
- 42 Ilioinguinal
- 43 Genitofemoral or genitocrural
- 44 Lateral or cutaneous nerv of thigh
- 5 Femoral nerv or anterior crural nerv (femoralis)
- 51 Middle cutaneous nerv
- 52 Internal " "
- 53 Muscular branches of posterior division of anterior crural nerv
- 54 Long or internal saphenous nerv
- 6 Obturator nerv
- 61 Accessory obturator, or accessory anterior crural nerv of Winslow
- 68 Lumbosacral cord
- 7 Sacral or sciatic plexus
- 71 Superior gluteal
- 72 Inferior "
- 73 Small sciatic nerv (cutaneus femoris posterior)
- 8 Great sciatic nerv or ischiadicus
- 81 External popliteal, or peronaeus communis or peroneal
- 82 Sural or lateral cutaneous branch, or cutaneus surae lateralis
- 84 Musculocutaneous or superficial peroneal
- 86 Anterior tibial nerv or deep peroneal
- 87 Internal popliteal or tibial
- 88 Sural or plantar nervs
- 9 Genital, pudic or pudendal plexus
- 93 Collateral branches
- 95 Pudic nerv

.836 Coccygeal plexus Coccygeal nervs

.839 Sympathetic system
- 1 Cervical and cephalic part
- 11 Superior cervical ganglion
- 12 Internal carotid nerv and plexus
  - Cavernous plexus
- 13 External carotid nerv and plexus
- 14 Common " plexus Superior cardiac nerv
- 15 Middle " ganglion Middle " "
- 16 Inferior cervical "
- 17 " cardiac nerv Cardiac plexus
- 2 Thoracic part of gangliated cord
- 3 Abdominal and pelvic part of sympathetic system
- 31 **Solar or epigastric plexus or plexus coeliacus**

.84 Eye Organ of vision

See also 611.7146 Orbit, including capsule of Ténon

.841 Fibrous coats or tunics of eye
- 1 Conjunctiva
- 3 Cornea
- 5 Sclerotic coat or sclera
  - Canal of Schlemm Spaces of Fontana

.842 Vascular coats of eye Uveal tract
- 1 Iris Pupil
- 3 Choroid
  - Tapetum
- 5 Ciliary body, muscle and processes

.843 Retina

Optic disc; macula lutea For optic nerv see 611.8312

611.844 **Refracting media**
1 Crystallin lens
2 Zonule of Zinn or zonula ciliaris
7 Vitreous humor Posterior chamber
Hyaloid membrane Hyaloid or Stilling's or Cloquet's canal
Canal of Petit
9 Aqueous humor Anterior chamber
.846 **Accessory organs of eye**
1 External muscles, musculi oculi
4 Tear apparatus
7 Lacrimal gland
8 " canals and puncta
9 " sac and nasal duct
.847 **Eyelids or palpebrae**
Canthi
5 Eyelashes or cilia
6 Eyebrows or supercilia
.85 Ear Organ of hearing
See also 611.8318 Auditory nerv
.851 **Internal ear**
.852 Membranous labyrinth
1 Cochlea, scala media, or ductus cochlearis
2 Organ of Corti, or Corti's fibers
4 Saccule
5 Utricle
6 Semicircular canals
.853 Osseous labyrinth
Vestibule, semicircular canals, cochlea, modiolus or columella
.854 **Middle ear or tympanum**
Atrium or tympanic cavity proper
5 Attic
7 Mastoid cells
.855 Membrana tympani, or drumhed
.856 Eustachian tube or tuba auditiva
.857 Bones of ear
Malleus or hammer; incus or anvil; stapes or stirrup; muscles of tympanum, stapedius and tensor tympani
.858 **External ear**
Meatus, pinna
.86 Organs of smell; olfactory organs
.87 " " taste
.88 " " touch and senses in general
.889 Organa lateralia
.89 Ganglions
Class ganglions here if separately treated
.891 **Cranial ganglions**
5 Semilunar ganglion or Gasserian
52 Ciliary "
54 Sphenopalatin or Meckel's ganglion
56 Otic or Arnold's submaxillary ganglion
7 Geniculate ganglion
81 Spiral or Corti's ganglion
85 Vestibular ganglion
9 Petrosal and superior glossopharyngeal ganglion
91 Jugular and nodose ganglions
.892 Ganglions of spinal nervs
See also 611.832 Spinal nervs
.899 Sympathetic ganglions
For chromaffin tissue see 611.4

611.9 Regional anatomy

.91 Hed

.92 Face

.93 Neck

.94 Thorax

.942 Front or pectoral

.946 Back or dorsal

.95 Abdomen

.951 Epigastric region

.955 Mesogastric "

.957 Hypogastric "

.959 Lumbar "

.96 Pelvic and perineal region

.962 True pelvis

.964 False "

1 Inlet 2 Cavity 3 Outlet

.966 Position and size

.968 Difference between male and female pelvis

.97 Upper extremities

.971 Shoulder or axilla

.972 Arm

.973 Elbow

.974 Forearm

.975 Wrist

.976 Hand

.977 Fingers

.98 Lower extremities

.981 Hip Nates Sulcus inguinalis

1 Hip

2 Nates

3 Sulcus inguinalis

4 Inguinal canal

5 Crural or femoral canal

.982 Thigh

.983 Knee Popliteal space

.984 Leg

.985 Ankle

.986 Foot

.987 Toes

.99 Tail

612 Physiology

SUMMARY

612.013 Vitalism
.014 Cells and organisms
.015 Physiologic chemistry
.1 Blood and circulatory system
.2 Respiration
.3 Digestion
.4 Glandular system
.5 Animal heat
.6 Reproduction Development
.7 Motor and vocal apparatus
.8 Nervous system

.01 General theory of physiology

.0111 Notion, definition, nature
.0112 Classification, division
.0114 Terminology, notation, symbols
.0118 Methods

.012 Physiologic theories and generalities

.013 On the nature of life and deth Vitalism

This place is provided for the physiologist who prefers to keep related topics with his subjects. Usually the heds under this number are better clast in their broader relations; i. e. see 577.2 for the nature of life; 577.7 for the nature of deth; 612.67 for deth as a stage in vital history

.1 Signs of real deth See 577.7
.2 Experiments on executed persons
.4 Theories of life and the soul Vitalism
See metaphysics, 128
.5 Comparisons of animals and plants See 577.5
.6 Organism and inanimate matter See 577.1
.7 Vital energy See 577.6
.8 Experiments on surviving organs See 577.6

.014 General physiology of cells and organisms

See 576 and note under 612.013

.1 Chemistry of cells
.11 **Aerobic and anaerobic cells**
.2 Physiologic morfology of cells
.21 **Functions of protoplasm**
.22 " " **nucleus**
.24 " " **chromosome bodies** **Chromatolysis**
.26 " " **centrosome**
.3 Physiologic characteristics of cells
.31 Irritability in general
.32 Fatigue
.4 Influence of environment on cells and organisms Mesology
.41 **Effects of barometric pressure**
See also 612.27 Influence of barometric pressure on living beings
.42 **Action of electricity** **Electrophysiology**
.421 Electrophysiologic technic
See also 615.84 Electrotherapy
.2 Static electricity
.4 Dynamic electricity
.5 Alternating currents
.7 Electric mesurements
.8 Special instruments
.1 Electrodes .2 Telefone, microfone .6 Galvanometers
.422 Electric resistance Conductibility

612.014 423 Electric fenomena of organisms
For electric fenomena of muscles see 612.743, of nervs and muscles see 612.813
1 Theory of electric fenomena
2 Negativ variation
3 Electrotonus
4 Electric fenomena of tissues in repose and in action
424 Action of electricity on organisms
Everything concerning effect of electricity on function may be clast here by adding 0 and dividing like 612; e. g. action of electricity on red corpuscles 612.0144240111, as .111 is the subdivision of 612 meaning red corpuscles. Action of electricity on bile 612.0144240357, as .357 means bile
2 Action of static electricity
3 " " atmosferic "
4 " " dynamic "
5 " " alternating currents
425 Deth by electric shock; by lightning
426 Magnetic action
427 Galvanotropism
428 Electrotherapy from physiologic point of view
43 **Action of heat and cold** See also 612.59
44 **Action of light** See also 612.843
445 Fosforescence
447 Heliotropism Fototropism
See also 615.831 Fototherapy
45 **Action of sound and its vibrations**
See also 612.85876
46 **Poisons and chemic substances**
Poisons and definit chemic substances ar preferably clast in 615.7, general toxicology in 615.9. This number is for topics of special physiologic interest
461 Effects of water
1 Reviviscent animals
2 Hydrations
3 Quantity of water in organisms and tissues
462 Physicochemic forces
1 Osmosis
2 Molecular concentration in organic fluids Cryoscopy
Subdivisible with 0 like 612; e. g. Cryoscopy of gastric juice 612.01446222032
3 Relation between secretion and osmotic pressure
4 Relation between osmosis and electric action: ions
5 Colloid substances: coagulation, agglutination, etc.
See also 612.398133 Theory of histologic conservation
6 Reaction, acid or alkalin
7 Viscosity
8 Superficial tension
9 Other physicochemic forces
463 Action of mineral salts on organisms
464 " " air, normal and abnormal; of oxygen and ozone
465 " " anesthetics
466 " " antiseptics
467 Chemotaxis Chemotropism
469 Action of other chemic forces
47 **Action of mechanical forces**
477 Geotropism
478 Thigmotaxis
48 **Other physical forces**
481 Various rays
1 Physiologic effect of X rays
To express effect of X rays on a specific organ or tissue, ad 0 and subdivide like 612; e. g. effect of X rays on sight 612.0144811084
4 Effect on lower organisms
482 Effect of radioactiv substances; Becquerel rays
483 Production and action of N rays

612.015 **Physiologic chemistry in general**
1 Ferments
11 **Oxydants** **Reducing ferments**
12 **Hydrolytic**
13 **Proteolytic**
14 **Lipolytic**
15 **Amylolytic and sucroclastic**
16 **Glycolytic**
161 Alcoholic
2 Normal composition of the body and its products
See also 612.3926, 612.396–.398
21 **Extracts of organs**
3 Metabolism
31 **Of mineral substances**
See also 612.3926
32 **Of carbon**
See also 612.22
33 **Of nitrogen**
See also 612.46123
34 **Of substances foren to the normal organism**
Elimination of poisons
Most material will be clast under 615.7 and its subdivisions
See also special organs
346 Metabolism of nonnitrogenous substances
347 " " crystallizable nitrogenous substances
348 " " albuminoids
349 " after deth Autolysis
Subdivisable with o like 612; e. g. autolysis of the liver 612 015349035
35 **Influence of temperature on metabolism**
See also 612.59
36 **Reductions, hydrations and syntheses in organisms**
37 **Influence of other agents on metabolism**
38 **Influence of nervous system on metabolism**
39 **Metabolism in disease**
4 Staining substances and pigments
.016 **Means of attack and defense**
Comparativ physiology; usually better clast in 591.57
1 Autotomy
2 Mimicry
3 Physiology of parasites
.019 **Comparativ physiology**
May be subdivided like 590 to signify kind of animal; e. g. Reptils being 598.1, comparison of reptil and human physiology is 612.01981
Class here only books written distinctly from physiologist's point of view. Other works on comparativ zoology are better in 591.1
Form divisions
.02 Compends
.03 Dictionaries Cyclopedias
.04 Essays Addresses
.05 Periodicals
.06 Societies Clubs
.07 Study and teaching
.077 Vivisection
See also ethics, 179.4, and laws, 614.22
.08 Polygrafy
.09 History

612.1 **Blood and circulatory system**
.109 **History of circulation of blood**
.11 General properties of blood
.111 **Red corpuscles**
1 Chemic composition
11 Hemoglobin and oxyhemoglobin
14 Carboxyhemoglobin
Action of CO on blood, carbon monoxid hemoglobin
15 Spectroscopy of blood
16 Methemoglobin and derivates
Hematin or hematoxylin, hematoidin, globin, hemin r Teichmann's crystals, hematochromogen, hematoporphyrin
17 Isotony of corpuscles Osmotic permeability
19 Chemic substances in corpuscles
Lecithin, urea, cholesterin, etc.
2 Number of corpuscles
Technic of counting
22 Volume of corpuscles
3 Formation of corpuscles
See also 612.119 Sanguification
4 Action of poisons on corpuscles
See also 612.11114 Action of CO on blood
44 Agglutinating substances
45 Hemolytic substances
6 Corpuscles in disease
7 Other red corpuscles than erythrocytes
8 Coloring matters of invertebrate blood
e. g. hemocyanin
9 Other similar coloring matters
e. g. chlorophyl and derivates: phyllcerytrin
.112 **Leucocytes and ameboid cells**
1 Chemistry of leucocytes
11 Ferments of leucocytes
Influence of leucocytes (lymphocytes) on digestion
2 Movements and irritability of leucocytes
3 Phagocytosis
4 Diapedesis
5 Effect on coagulation of blood
6 In disease and intoxications Leucocytosis
For digestiv leucocytosis see 612.11211
7 Counting and its technic
8 Numeric relations of white and red corpuscles
9 Varieties Physiologic morfology
.113 **Arterial blood**
.114 **Venous "**
.115 **Coagulation of blood**
1 Fibrin Fibrinoplastin
11 Composition and chemic properties
12 Fibrogenous and fibrinoplastic ferments Fibrinogen Thrombin
13 Estimating quantity of fibrin
3 Substances modifying coagulation
31 Retarding agents
35 Accelerating agents

612.116 **Total quantity of blood**

2 Hemorrhage Anemia

Subdivisable with o like 612; e. g. physiologic influence of anemia on kidneys 612.1162046 For pathologic effect see 616.243, 618.54

21 Hemostasia

3 Transfusion

Effect on system receiving transfused blood

.118 **Physical and biologic properties of blood**

1 Physical

11 Osmotic pressure

See also 612.11117 Osmotic permeability

12 Effect of various injections

14 Viscosity

17 Cryoscopy of blood

Method of studying isotony and similar phenomena by relativ freezing points of solutions

2 Biologic properties

21 Toxins and antitoxins

Physiologic effect For chemic action see 612.3988 May be used for those not produced by the blood, e. g. cytotoxins

211 Theory of toxic and antitoxic action

22 Toxic and antitoxic action of blood

Limited to blood toxins and antitoxins. See also 612.3988

221 Specific reaction of blood and albuminoids

Blood in legal medicin

222 Natural immunity

223 Effect of blood on bacteria

Class here physiologic aspect of opsonic theory, opsonins and opsonic index See also 615.37 Serotherapy

24 Various toxic and antitoxic substances of blood

7 Varieties of blood in different parts of body

.119 **Hematopoiesis or sanguification**

See also 612.1113 Formation of red corpuscles

.12 Chemic properties of blood

.121 **Reaction and density**

Color reaction Specific gravity

.122 **Carbohydrates in blood**

1 Glucose 2 Glycogen 3 Glycolytic ferments

.123 **Fats, lipoids, cholesterin, saponin, glycerin**

.124 **Albumins and albuminoids Uncrystallizable nitrogen compounds**

See also 612.39812 Blood serum

.125 **Crystallizable nitrogen compounds**

1 Staining substances of serum

.126 **Mineral salts**

.127 **Blood gases**

1 Technic for determining quantity 2 Oxygen 3 Carbonic acid

.128 **Ferments**

.129 **Other chemic substances**

Abnormal substances

612.13 Hydraulic principles of circulation
.133 **Arterial circulation**
Sounds and murmurs
See also 612.143
.134 **Venous circulation**
See also 612.144
1 Air in the veins
2 Venous pulse Flebogram
.135 **Capillary circulation**
.14 Blood pressure
.141 **Technic of mesuring pressure**
Sphygmograf Sphygmomanometry
.143 **Pressure in arteries**
See also 612.133
.144 **Pressure in veins**
See also 612.134
.145 **Pressure in capillaries**
See also 612.135
.146 **Influence of various agents on pressure**
1 Influence of respiration Asphyxia
See also 612.213
2 Effect of drugs and organic extracts
3 Pressure in disease
.148 **Pressure in lesser or pulmonary circulation**
.15 Rapidity of circulation
In arteries, veins or capillaries Technic of mesuring
.16 Pulse
For dicrotic pulse see 616.071 Pulse in diagnosis
See also 612.1342 Venous pulse
.166 **Pulse in disease**
.17 Hart
.171 **Mechanism of cardiac contraction**
Impulse or apex beat Change of volume and position of beating hart Systole Diastole
1 Technic of cardiac contraction Cardiografy
3 Valvs System of valv closure
5 Hart sounds
56 " " in disease
7 Action of abnormal hart: misplaced or malformd
.172 **Hart as a muscle**
Cardiac irritability, contractibility and physiologic morfology
1 Action of blood and coronary arteries Cardiac anemia
2 Rhythm Excitation wave Frequency of beats
3 Electric stimulation of hart and refractory period
4 Electromotiv force
5 Surviving hart Artificial respiration
Solutions maintaining beat of hart
6 Physiologic morfology
61 Conduction of stimulation

612.173 **Work of the hart**
Chemic, dynamic and thermic fenomena
1 Chemic composition of hart
2 Intracardiac pressure
.174 **Effect of toxins on the hart**
1 Atropin
2 Anesthetics
.176 **Hart in disease**
.178 **Innervation of hart**
1 Pneumogastric or vagus
See also 612.819911
2 Sympathetic
See also 612.897
3 Ganglions of hart
4 Action of cerebrum
See also 612.8228
5 Action of medulla oblongata
See also 612.828
6 Cardiac syncopes and reflexes
7 Depressor nerv
.179 **Prenatal circulation**
.18 Vasomotors
.181 **Action of nervs and nerv centers on bloodvessels**
1 Action of cerebrum
2 " " medulla oblongata
3 " " spinal cord
4 " " great sympathetic
.182 **Influence of vasomotors on arterial pressure**
.183 **Vasoconstrictors**
.184 **Vasodilators**
.185 **Effect of poisons on vasomotors**
.186 **Vasomotors in disease**
.187 **Vasomotors in organs**
Divide like 612 Physiology; e. g.
612.18724 Effect of vasomotors on lung capacity
612.1878421 Effect of vasomotors on iris
612.1875 Influence of vasomotors on temperature
612.187556 Vasomotors in fever
.188 **Erectil tissues**
See also 612.612
.189 **Change of volume of organs**
Plethysmografy Quantity of blood in various organs
.19 Action of special organs on circulation
.2 **Respiration**
See also 612.793 Cutaneous respiration
.21 Respiratory movements Mechanics of respiration
.211 **Pneumografy Respiratory types**
Respiratory excursion
.212 **Pulmonary elasticity and intrapleural pressure**
Intrapulmonary and intrathoracic respirations

612.213 **Influence of respiration on circulation**
See also 612.1461
.215 **Special physiology of respiratory apparatus**
1 Bronchi
2 Trachea
3 Smooth pulmonary muscles
4 Primary paths of respiration: nose and pharynx
5 Pleura
8 Pulmonary circulation
See also 612.148
9 Pulmonary absorption of liquids
See also 612.385
.216 **Respiratory frequence and rhythm**
1 Respiratory sounds
2 Pulmonary ventilation
3 Artificial respiration, artificial changes of respiration
.217 **Action of muscles Mechanical fenomena**
Dimensions and expansibility of thorax
1 Action of diafram
.219 **Other mechanical fenomena**
Modified respiratory acts: snoring, laughing, crying, sighing, yawning, coughing, hawking, sneezing, blowing nose, gargling
.22 Respiratory exchange of gases Respiratory chemistry
02 Action of oxygen and ozone on organisms
08 Composition of normal air (only in its physiologic bearing)
.221 **Technic of gaseous exchange**
.222 **Effect of various agents on gaseous exchange**
.223 **Effect of quality of air**
Hyperpnea, polypnea, thermopnea
1 Composition of abnormal air
11 Carbonic acid
12 Activ oxygen or ozone
2 Influence of barometric pressure
See 612.27
3 Influence of climate
.224 **Influence of food**
.225 " " **temperature**
.226 **Effect of disease and intoxications**
.227 **Influence of organs**
1 Influence of muscular movements
Motion, rest, work
2 Influence of nervous system
3 " " circulation
.229 **Influence of animal kind**
Variability of gaseous exchange in animal kinds
1 Influence of stature
2 Aquatic animals

612.23 Gaseous exchange in the blood
.231 **Expired air Respiratory quotient**
.232 **Asphyxiation**
In legal medicin
1 Artificial respiration in asphyxiation
2 Asphyxiation by submersion
3 Hart in asphyxiation
4 Toxic action of carbonic acid (CO_2)
.233 **Respiration in confined air**
.234 **Toxic action of carbonous oxid (CO)**
See also 612.11114 and 615.96
.235 **Exchange of gases between air and blood**
1 Theory
.24 Lung capacity Vital capacity
Residual, reserv, respiratory or tidal and complemental air
.25 Exhalation of water from lungs
.26 Internal or tissue respiration
.261 **Exchange of gases between tissues and blood**
.262 **Accumulation of oxygen in tissues (cells)**
.27 Influence of barometric pressure on living beings
See also 612.01441. For effect on absorption of oxygen and exhalation of carbonic acid see 612.2232
.273 **Toxic effects of oxygen and ozone**
.274 **Effect of more than normal pressure**
Physiologic aspect of caisson disease
.275 **Effect of less than normal pressure**
1 Physiologic and therapeutic effects of high altitudes
11 **Mountain and aeronautic sickness**
.276 **Effect of pressure on fermentations**
Effect of removing pressure
.279 **Maximum pressures**
Effect on aquatic animals
.28 Respiratory centers
Influence of nervous system on respiration
.281 **Action of cerebrum and of will**
.282 " " **medulla oblongata and vagus nucleus**
.283 " " **spinal cord**
.284 " " **chemic substances and abnormal blood gases**
1 Toxicology of center
2 Apnea, acapnea, dyspnea
See also 612.232
.287 **Action of pneumogastric or vagus nervs**
See also 612.819912
.283 **Respiratory reflexes**
See also 612.8332
.29 Influence of other organs on respiration

612.3 **Digestion**
May be subdivided by 01–09 for form, if needed
.31 Mouth Teeth Salivary glands
.311 **Mastication and prehension**
1 Physiology of teeth
.312 **Deglutition or swallowing**
2 Tonsils 3 Tung
313 **Salivary glands Saliva**
1 Composition of normal saliva
2 Action of saliva on food Ptyalin
3 Salivary secretion
31 Toxic effect of saliva
4 Action of chemic substances
See also Therapeutics, 615.741 Sialagogs
41 Elimination
42 Action of atropin and of pilocarpin
5 Physiologic morfology
6 Pathologic changes of saliva
61 Salivary fistulas
63 Bacteriology
64 Salivary calculi
69 Abnormal substances
8 Action of nervous system on salivary secretion
82 Action of sympathetic nervs
See also 612.898
87 Action of chorda tympani
See also 612.81977
.314 **Salivary venoms and venoms in general**
1 Chemic composition
2 Toxic action
3 Natural immunity and resistance to venoms
4 Attenuation and neutralization of venoms
5 Treatment of venom poisoning Serotherapy
See 615.94 Duplicated here for physiologist only
51 Antitoxins
See also 612.11822 Antitoxins of serum
.315 **Esofagus**
.32 Stomach Gastric juice Vomiting
.321 **Normal composition of gastric juice**
1 Gastric fistulas, experimental and pathologic
2 Determination of acid in gastric juice
5 Proteolytic ferments: pepsin
6 Milk curdling ferments, inorganic and organic
.322 **Digestiv power of gastric juice**
1 Starch and analogs
2 Sugars " "
3 Fats " "
4 Albuminoids
45 Nature and properties of peptones
See also 612.39817
5 Antiputrefactiv properties of gastric juice
6 Mixture of bile or other secretions of digestiv tract and gastric juice

612.3227 Absorption in stomach and transformation (into mucus) of products of digestion
See also 612.386
72 Absorption and transformation of sugars
73 " " " " fats
74 " " " " nitrogenous substances (peptones)
75 " " " " salts Effect on stomach
.323 **Stomach secretion**
2 Formation and destruction of pepsin
21 Pepsin in urin
3 Formation of hydrochloric acid (HCl)
4 Autodigestion of stomach
5 Effects of removing stomach
.324 **Action of chemic substances (poisons) on gastric secretion and their elimination**
.325 **Physiologic morfology of stomach**
Relation between morfologic changes and stimulation
.326 **Pathologic changes of stomach secretion**
3 Bacteriology
5 Gastric juice in disease
9 Abnormal substances in gastric iuice
.327 **Movements of stomach**
1 Muscular irritability of stomach
2 Motor action of pneumogastric See also 612.819913
3 Evacuation of stomach
5 Merycism and rumination
7 Vomiting
8 Action of emetics or vomitories
See also under therapeutics, 615.731 Emetics
.328 **Action of nervous system on stomach**
1 Psychic influence on stomach secretions
8 Sensibility of stomach
.33 Intestin
Middle intestin and glands of middle intestin in invertebrates
.331 **Normal composition of intestinal juice**
1 Intestinal fistulas, experimental and pathologic
7 Intestinal gases Fermentiv process due to bacteria
.332 **Intestinal digestion**
2 Carbohydrates
3 Fats
4 Albuminoids and derivates Erepsin
7 Absorption and changes of food in intestin
See also 612.386
72 Carbohydrates
73 Fats Chyliferous vessels See also 612.426
74 Albuminoid derivates
75 Other substances
751 Inorganic substances Water and salts
8 Action of intestinal juice on other secretions and ferments
See also 612.3226
84 Enterokinasis and secretin

612.333 **Intestinal secretion**
.334 **Action of chemic substances on the intestin and their elimination**
4 Purgativs
See also therapeutics, 615.732 Cathartics
.335 **Physiologic morfology of intestin**
5 Intestinal circulation
.336 **Pathologic changes of intestinal secretion**
3 Parasites and microbes
31 Bacterial fermentation Physiologic effect of microbes
.337 **Movements of intestin**
1 Movement of chyme in intestin
.338 **Action of nervous system on intestin**
1 Action of nervs and nerv centers on secretion
.339 **Peritoneum Omentum**
1 Absorption in peritoneum
See also 612.387
.34 Pancreas Pancreatic juice
.341 **Normal composition of pancreatic juice**
1 Pancreatic fistulas
.342 **Action of pancreatic juice on food Tryptic digestion**
1 Starches and analogs
2 Sugars
3 Fats Steapsin or ptyalin
4 Albuminoids Trypsinogen Trypsin
5 Effect on other digestiv fenomena
51 On bile and gastric juice
See also 612.3226
.343 **Pancreatic secretion**
.344 **Action of special substances on pancreatic secretion and juice**
.345 **Physiologic morfology**
Relation between morfologic changes and stimulation
.346 **Pathologic changes of pancreatic juice**
.348 **Action of nervous system on pancreas**
.349 **Pancreas as an internal gland Ilands of Langerhans**
1 Pancreatic glycosuria
Physiologic fenomena only. See also 612.35216, 612.46621, and diseases 616.61, where most material belongs
.35 Liver
.351 **Hepatic circulation and chemic composition**
1 Chemic composition
11 Ferments
5 Hepatic circulation
51 Ligature of portal vein
6 Effect of extracts from hepatic tissue
61 Hepatic opotherapy

612.352 **Effect of liver on absorbd foods**
1 Glycogenesis Glycogen of liver and its tissues
See also 612.396112 Chemistry of glycogen
11 Determination of amount of sugar and glycogen: technic
12 Sugar of the blood See also 612.122
13 Action of nervs on glycogenic function Experimental diabetes
14 Fermentation of glycogen Glycogenolysis
16 Glycosuria (diabetes) in general
See also 612.3491. 612.46621 and pathology 616.63
17 Glycogen of other organs
18 Glycogen of muscles See also 612.74411
19 Relations between glycogenesis and alimentation
2 Fat Adipogenic function
.353 **Hepatic chemic fenomena**
1 Formation of urea See also 612.4612
.354 **Action of poisons on liver**
1 Toxic steatoses
2 Antitoxic action of liver
.355 **Temperature of liver** See also 612.563
.356 **Hematopoietic function of liver and effect on blood**
See also 612.119
.357 **Bile**
1 Normal composition of bile
11 Biliary fistulas
13 Coloring matter Bile pigments
Bilirubin, biliverdin For origin see 33 below
14 Mineral salts
15 Biliary acids and their salts
Glycocholic and taurocholic acids
2 Action of bile in the intestin
Final fate of bile
3 Bile secretion
31 Quantity
32 Origin of bile acids
33 " " " pigments
4 Action of chemic substances on bile secretion
See also therapeutics, 615.742 Cholagogs
5 Elimination of poisons by bile
6 Pathologic physiology of bile
For general works and medical aspect see 616.36
64 Biliary calculi
65 Obliteration of bile ducts Icterus Jaundis Cholemia
See also pathology, 616.36 Liver and bile ducts
66 Bile in disease
67 Toxic effects of bile
69 Abnormal biliary substances
7 Biliary excretion Physiology of ducts
71 Gall bladder
72 Absorption in biliary ducts
73 Contractility of ducts
8 Innervation of bile ducts
.358 **Action of nervous system on liver**
.359 **Ablation, regeneration, cicatrization and other morfologic fenomena**
1 Volume of liver
2 Fatty or starchy degeneration

612.36 Defecation Large intestin
Proctodeum and its appendages in invertebrates
.361 **Chemic composition of excrements**
.363 **Cecal digestion Vermiform appendix**
.364 **Absorption in large intestin**
.365 **Defecation**
.366 **Rectum**
.367 **Movements of large intestin**
.368 **Innervation " " "**
.38 Absorption
.381 **Imbibition Transudations and exudations Edema**
.382 **Osmosis** See also 612.0144621
1 Dialysis of mineral salts
2 " " sugars
4 " " albuminoids
.383 **Diffusion**
.384 **Absorption by skin**
See also 612.79
.385 **Absorption by lungs**
See also 612.2159
.386 **Absorption in digestiv tract**
General; see also specific part of tract
.387 **Absorption by mucous and serous membranes**
See also 612.3391
.388 **Parenchymatous absorption**
Absorption by cellular tissue (after injection)
.39 Nutrition Metabolism
.391 **Hunger Thirst Inanition**
3 Hunger, thirst and nervous centers Mechanical action of hunger
4 Inanition in man
6 " " disease
9 " " animals
92 Inanition in poikilothermic animals
96 " " homoiothermic "
.392 **Foods**
1 Assimilation of carbon
2 " " nitrogen
See also 612.46123
3 Assimilation of water
4 " **of sulfur, fosforus and iron**
3 Sulfur 4 Fosforus 5 Iron
5 Thermodynamic value of food
6 Mineral foods
1 Sodium salts 2 Potassium salts 3 Calcium salts
- Vegetable foods
71 Vegetarianism See also hygiene, 613.26 Vegetable diet
72 Fruits and fresh vegetables
73 Cereals
74 Bred

612.3928 Animal food
See also hygiene, 613.28 Meats in diet
81 Meats
82 Soup Meat extracts
83 Egs
84 Milk
See also 612.664
841 Sterilization and artificial changes in milk
85 Cheese
86 Butter
9 Special artificial foods
.393 Condiments and stimulants
1 Alcohol as food Fermented drinks
See also hygiene of nervous system, 613.81 Alcohol
2 Coffee Tea
See also hygiene of beverages, 613.37
9 Condiments
.394 Ration or food requirement during growth
2 Of man Nourishment of newborn
3 " animals
.395 Ration or food requirement of adults
1 Working ration Normal ration
12 Working ration for man
13 " " " animals
2 Subsistence ration
22 Subsistence ration for man
23 " " " animals
5 Relations of ration to external conditions, e. g. climate
6 Food requirements in disease
.396 Carbohydrates
1 Chemic composition
11 Polysaccharids
111 Starch Inulin
112 Glycogen
113 Cellulose
12 Gums and analogs: dextrin
13 Monosaccharids: glucose, mannose, gallactose, fructose, etc.
14 Disaccharids: sugar, lactose, maltose, etc.
17 Combined carbohydrates
See 612.3981453 Glycoproteids
172 Chitin
175 Glycosids: amygdalin, salicin, phlorizin, saponin, etc.
19 Other carbohydrates: pentose, inusitum
2 Changes of sugars in organism Glycolysis
21 Products of carbohydrates; e. g. glycuronic acid
22 Alcohol in tissues
3 Hydrolytic ferments of carbohydrates and analogs
31 Amylasis, inulasis, cytasis, etc.
32 Saccharoclastic ferments Inversion
4 Formation of carbohydrates in organism
5 Thermodynamic value of carbohydrates
7 Quantity of carbohydrates in foods and tissues

612.397 **Fats**
1 Chemic composition
2 Changes of fats in organism
21 Fatty degeneration and infiltration See also 612.3952
22 Products of fats
23 Acids
24 Glycerins
3 Lipolytic ferments
4 Formation of fats
5 Thermodynamic value
7 Quantity of fat in food and tissues Adiposity
8 Lipoids
81 Cholesterin
82 Lecithin
.398 **Albuminoids and nitrogenous substances**
1 Chemic composition
11 Composit albuminoids
For eg albumin see also 612.39283
12 Blood serum and other serous fluids of body
See also chemical properties of blood, 612.124 Albuminoids
13 Simple albuminoids
131 Albumin
132 Globulins: fibrinogenic and fibrinoplastic substances, myosin, etc.
133 Coagulated albuminoids Fibrin Coagulation of albuminoids
135 Albuminoids as acids or bases
136 Nucleoalbumins, simple phosphorated albuminoids
138 Protamins
139 Other albumins
14 Other albuminoids
145 Proteids
Albumin + a complex organic compound
1 Nucleoproteids
Albumin + nucleic acid, products of nucleic acid and specific ferments
2 Hemoglobin and analogs
Albumin + an iron compound. See also 612.11111
3 Glycoproteids
Albumin + a carbohydrate. See also 612.3967
146 Albuminoids: glutin, elastin, amyloid, etc.
15 Vegetable albuminoids
16 Albuminoid products and nitrogen compounds
17 Albuminoses and peptones
172 Thermodynamic value
175 Changes of substances derived from albuminoids by digestion
19 Products of complete change of albuminoids Nitrogen compounds
191 Protaminic nucleus See also 612.398138
192 Amidic acids
193 Urea Uric acid See also 612.4612, 612.46125, 612.398195
194 Ammonia and ammonia compounds
195 Bases (alkaloids), purin compounds
196 Aromatic compounds
197 Nonnitrogenous products of albuminoids
199 Other products
2 Changes of albuminoids in organism
3 Proteolytic ferments
Only general works See specific nitrogen compounds for their derivates, ferments and properties For milk curdling ferments see 612.3216 and 612.664171
5 Thermodynamic value of albumins and derivates
Albumin as food

612.3986 Formation of albuminoids in general
7 Quantity of albuminoids in food and tissues
8 Toxins, antitoxins Chemistry of poisons
For action, see 612.11821; for animal poisons, see 612.314; for ptomains, leucomains, etc. see 612.398195 above

.4 Glandular system Secretion Excretion
.401 Effect of circulation on glands
.402 " " glands " circulation and blood
.403 " " " " nutrition
.404 " " nutrition " glands
.405 Physics and chemistry of secretion
.407 Effect of glands on nervous system
.408 " " nervous system on glands
See also 612.817
.409 Physiologic morfology of secretions and glandular epitheliums
.41 Spleen
.411 **Hematopoietic action Effect of spleen on blood**
.412 **Splenotomy Circulation in spleen**
.413 **Contractility of spleen**
.414 **Spleen in relation to other organs**
1 Effect on digestion
.416 **Function of spleen in disease, in experimental infections and in wounds**
.418 **Chemic fenomena**
.42 Lymfatic system and lymf
For lymfocytes see 612.112
.421 **Lymf Chemic composition**
.422 **Quantity and origin of lymf**
.423 **Lymfatic circulation**
1 Thoracic duct
.424 Lymfatic harts
.425 **Innervation of lymfatic system**
.426 **Lymfatic absorption**
See also 612.33273
.427 **Lymfatic fistulas**
.428 **Lymf glands**
.43 Thymus
.44 Thyroid gland
.441 **Chemic composition**
.442 **Parathyroid glands or accessory thyroids**
.445 **Thyroidectomy Destruction of thyroid**
Including pathologic destruction
.448 **Effects of thyroid extracts**
.45 Suprarenal capsules
.451 **Chemic composition**
.455 **Excision and destruction**
.458 **Effect of capsular extract**

612.46 Kidneys Urin
.461 **Chemic composition of urin**
1 Reaction and physical properties
11 Reaction
12 Density
13 Temperature
17 Urinary technology
174 Staining reactions
175 Spectroscopic examinations
176 Polarimetric "
177 Histochemic "
178 Pathologic urinary technology
179 Densimetry and cryoscopy of urin
2 Urea and nitrogen compounds
21 Determination of quantity of urea Ureameters
22 Determination of total nitrogen
23 Excretion and metabolism of nitrogen
231 In relation to alimentation
232 " " " work
234 Effect of chemic substances (poisons)
235 Influence of temperature
236 " " disease
238 " " nervous system
239 " " animal kind
Variability of process in animal kingdom
25 Uric acid See also 612.398193
251 Determination of quantity
254 In animals
255 " normal man
256 " man in disease: uric diathesis
259 " other tissues and fluids than urin
26 Other nitrogen products of urin
261 Bases Xanthin bases See also 612.398195
262 Ptomains
263 Allantoin
264 Peptones See also 612.46668, 612.39817
266 Hippuric acid
267 Ammonium and other urates See also 612.398194
268 Ferments See also 612.32321
269 Physiologic albuminuria
27 Coloring matter Pigments: urobilin, urochrome
6 Salin substances in urin
61 Chlorin salts
62 Fosforus and its compounds
63 Sulfur and its compounds
64 Gases of urin
8 Nonnitrogenous organic constituents of normal urin
82 Sugars Physiologic glycosuria
.462 **Urinary toxicity**
1 Internal secretion of kidneys
.463 **Urinary secretion**
1 Quantity of urin
2 Elimination of urin
4 Renal circulation
5 Influence of blood and circulation
6 Comparativ secretion of the two kidneys
8 Effect of nervous system
81 Glycosuria, polyuria after lesion of medulla oblongata

612.464 Action of poisons on urinary secretion and their elimination

1 Diuretics Polyuria
See also 615.761 Diuretics in therapeutics

2 Toxic albuminurias
See also 612.46622

3 Elimination of poisons by urin

4 Toxic glycosuria Phlorizin
See also 612.46621

.465 Physiologic morfology of kidneys

.466 Pathologic physiology of kidneys and urin

1 Urinary calculi

2 Urin in disease

21 Urin in diabetes Chemistry of glycosuria For physiology of diabetes see 612.35216

22 Urin in albuminuria Albuminuria in general
See also 612.461269, 612.4642 and 616.634

23 Resection and lesion of kidneys, experimental and pathologic Ligature of ureter, etc.

231 Uremia See also 616.638

26 Urin in fever

6 Abnormal substances in urin

61 Acetonuria Acidosis

62 Chyluria

63 Other abnormal products of metabolism

631 Glycuronic acid See also 612.39621

64 Products of intestinal putrefaction Indican

67 Biliary pigments Choluria

68 Albuminoses and peptones

69 Hematuria and hemoglobinuria

7 Urinary fermentation Putrefaction of urin

.467 Urinary discharge

1 Physiology of bladder, ureters and urethra

11 Micturition

2 Absorption in urinary passages

3 Innervation of vesical apparatus
For prostate see 612.617 For action of nervous system on function of kidneys see 612.4638

.49 Other glands and secretions

.491 Bone marrow

.492 Hypophysis or pituitary gland Somatic brain

.493 Scent glands of animals

.494 Bartholini's glands

495 Carotid gland

499 Other glands
See also 612.664, 612.702

612.5 Animal heat

.51 Sources Thermogenesis Calorimetry

.511 **Direct calorimetry**

6 Calorimetry in disease

.512 **Indirect calorimetry**

1 Influence of alimentation

3 Effect of respiration

.52 Loss of heat Radiation Thermolysis

Conduction of animal tissues

.521 **Cutaneous radiation**

1 Physiology of clothing

.523 **Loss by pulmonary evaporation**

.524 " " **cutaneous evaporation**

.53 Regulation of temperature Heat balance

Thermotaxis

.531 **Influence of vasomotors**

.532 " " **muscular movement**

See also 612.7453

.533 **Effect of perspiration**

.534 " " **respiration** **Thermic polypnea**

.535 **Thermic centers**

.54 Other conditions affecting temperature and thermogenesis

.541 **Effect of baths**

.543 " " **inanition**

See also 612.391

.544 **Effect of poisons**

.55 Variations in production and regulation of heat

.556 **In disease: fevers**

.56 Temperature of body

.563 **Thermic topografy**

.58 Hibernating animals

.59 Heat and cold; effect on organism

Subdivisable with o like 612; e. g. 612.59074 Effect on muscles
612.5908 " nervous system

See also 612 01443

.591 **Effect of heat** **Deth from heat** **Thermic rigidity**

.592 **Effect of cold** **Deth from cold** **Rigidity from cold**

612.6 **Reproduction and generation** **Development**

.601 **Spontaneous generation**
See origin and beginnings of life, 576.1

.602 **Transplantation** **Animal grafting**
May be divided by organs like 612

.603 **Cicatrization** **Regeneration**
May be divided by organs; e. g. 612.60344 Regeneration of thyroid
612.60384 " " eye

.604 **Reproduction of lower organisms**
Protozoa, etc.

1 Asexual: fission, division, gemmation or budding or sprouting

2 Sexual: conjugation or concrescence

5 Variations: alteration of generations or metagenesis, pedogenesis, parthenogenesis

.605 **Morfogenesis in general** **Heredity**
See 575 Evolution

1 Heredity

2 Variation, including artificial

3 Hybridization

4 Tumors
Only for physiologic aspect, for pathology see 616.992

.606 **Proportion and determination of sexes**
See also Biology, 577.8 Sexes in nature, sexuality

.607 **Consanguinity** **Incest**

.608 **Hermafroditism**

.609 **Theory of evolution** **Natural selection, darwinism**
See 575 Evolution

.61 Male functions of generation
For semen see 612.616

.612 **Erection**
Including also the function in general, in either or both sexes See also 612.188

.613 **Copulation and fecundation**

1 Artificial "

2 Parthenogenesis

21 Artificial parthenogenesis

.616 **Testicles** **Orchitic fluid** **Sperm**

1 Effects of castration Resection or injury, experimental or pathologic, of testicles or of sexual glands in general

2 Physiology of spermatozoa

3 Testicles as internal glands Interstitial cells

.617 **Appendages of male organs: seminiferous ducts, seminal vesicles**

.62 Female functions of generation Ovulation
See also 612.612 and 612.6161

.621 **Physiology of ovaries**
See also 612.6303

1 Ablation or injury of ovary, experimental or pathologic
See also 612.6161

.622 **Physiology of ovum**

.627 **Physiology of uterus**

1 Uterin circulation

8 Innervation of uterus

612.63 Impregnation Pregnancy Parturition
See also 612.612
01 Period of pregnancy
03 Ovary in pregnancy Corpus luteum
.64 Development of embryo
For embryology see 611.013; for abnormal development see 611.012 Teratology, 617.3 Deformities
.646 Physiology of embryo
.647 " " fetus
.648 " " newborn
.649 Appendages of embryo Amniotic fluid
See also 611.0138 Fetal appendages (in embryology)
.65 Growth after birth
See also 612.64
.651 Metamorfosis of lower animals Larvae
.66 Period of full development
.661 Puberty
.662 Menstruation
.663 Fecundity
.664 Lactation and milk
Physiology of mammary glands
1 Physics and chemistry of milk
12 Sugars
13 Fats Butter
14 Albuminoids
16 Mineral substances
17 Lactic fermentation Milk ferments
171 Milk curdling ferments Coagulation of milk
18 Other constituents
181 Abnormal substances
19 Comparison of milk of various animals
191 Human milk
3 Lactic secretion
31 Quantity
32 Formation of sugars
33 " " fats
34 " " albuminoids
35 Colostrum
36 Effect of various agents on secretion
4 Action of poisons on milk secretion and their elimination
5 Physiologic morfology of milk
6 Pathologic changes in lactic secretion
7 Digestion of milk
8 Innervation of mammary glands
.67 Period of decline Deth
See also 577.7
.68 Longevity
See also 368.3 Life insurance; 519.5 Probabilities; 614.12 Deth rates

612.7 Motor and vocal apparatus Skin

.71 Protoplasm

See also 612.014 General physiology of cells and organisms

.72 Vibratil cilia

.73 Smooth muscle

Divided like 612.74

.74 Striped muscle

Muscle in general, including smooth muscle

.741 Muscular contraction

1 Myografy

12 Single contraction of muscle fiber Jerk contraction

13 Tetanic contraction

14 Tonic contraction

15 Influence of chemic substances on muscles

16 Myografy in disease

2 Change of volume of muscle

3 Muscle wave

4 Elasticity of muscle

Myotonometry Effect of weight Tension

6 Muscular irritability Influence of blood

61 Circulation in muscles

62 Effect of stimulation

63 " " electricity

7 Latent period

Time elapsing between moment of stimulation and response by an activ tissue

8 Muscle murmur

9 Physiologic morfology of muscles

Histologic phenomena of contraction

.742 Muscles after deth Rigor mortis

1 Chemic phenomena after deth: autolysis

.743 Electric phenomena of muscles

.744 Chemistry of muscle

1 Normal composition

11 Carbohydrates

See also 612.35218 Glycogen of muscles

14 Albuminoids

15 Other organic substances

16 Mineral substances

Including water Muscle salts

17 Gases

2 Chemic effects of muscular contraction

21 Fatigue

211 Ergografy Dynamometry Work in general

22 Consumption of oxygen and production of CO_2 in work

23 Function of carbohydrates

24 Relation of chemic changes to work Metabolism in relation to work

.745 General effect on organism of muscular contraction or work

See also 612.532

1 Dynamic effects

3 Thermic "

5 Relations between work and heat

612.746 **Pathologic physiology of muscles**
1 Contractures
4 Tremors Shuddering
5 Nutrition of muscles Atrofy Degeneration Regeneration
Including nerv influence See also 612.818
.75 Bones, joints and connectiv tissues
.751 **Chemic composition of bone and connectiv tissue**
See also 612.398146
1 Bone
2 Cartilage
3 Connectiv tissue
.752 **Nutrition of bones**
.753 **Growth, cicatrization and regeneration of bone**
.754 **Periosteum Perichondrium**
.755 **Tendons**
.76 Locomotion
Principles of animal mechanism; comparativ study of locomotion preferably clast in 591.47
.761 **Chronofotografy: technic**
.763 **Special movements Combined movements**
Physiology of violin playing, etc.
.766 **Human locomotion**
1 Physiology of exercise and work
2 Rest
.767 **Animal locomotion Special organs of locomotion**
Swimming bladder of fishes
.768 Flight
.769 **Biologic adaptation of movement**
.77 Electric and phosphorescent animals
Preferably clast 591.59
.771 Electric animals
.772 Phosphorescent animals
.78 Voice and speech
See also 784.9 Vocal hygiene; 808.5 Elocution; 534.7 Sound
.781 **Sensibility of larynx**
.782 **Movements and innervation of larynx**
1 Influence of spinal accessory nerv
See also 612.819923
2 Influence of pneumogastric
See also 612.819917
3 Laryngoscopy
4 Movements of glottis
5 Epiglottis
.783 **Artificial larynx**
.784 **Singing Timbre, quality Voice register**
.785 **Larynx in deglutition and other laryngeal functions**
See also 612.312
.786 Organs of sound in lower animals
.788 Larynx of birds

612.789 **Speech Language**
1 Function of mouth and nose
2 " " lips and soft palate
3 Innervation of organs of speech Aphasia
See also 616.855
4 Vowels and consonants
5 Ventriloquism
See also 791 Ventriloquism as an amusement
.79 Skin
.790:5 Chemic composition
.791 **Absorption**
See also 612.384
1 Penetration by solids
2 Absorption of fats
3 " " solutions
4 " " liquids
5 " " gases
.792 **Cutaneous glands and secretion**
1 Swet Chemic composition
12 Toxic action of swet
4 Action of chemic substances on swet secretion
42 Elimination of poisons by swet
5 Physiologic morfology of swet
6 Pathologic changes of swet
8 Action of nervous system on cutaneous exhalation
9 Other cutaneous secretions
.793 **Cutaneous respiration**
4 Effect of suspended transpiration; closing pores by liniments, etc.
5 Effect of chemic substances on skin
See also 612.7924
.794 **Cutaneous sensibility**
.795 **Electric conductibility and resistance of skin**
See also 612.014422
.796 **Chromatophores and skin pigments**
.798 **Trofic nerves of skin**
.799 **Growth and physiology of nails and hair**

612.8 Nervous system

.801 Theory of nervous system and innervation
- 1 Dynamogenesis and inhibition
- 2 Action of nervous system on chemic phenomena
- 3 Effect on morfogeny and evolution

See also 612.605

.81 Peripheral nervous system Nerv fibers

.811 Distinction between sensory and motor nervs
- 3 Ganglions of sensory nervs
- 4 Influence of sensibility on movement and of movement on sensibility

.812 Recurrent sensibility

.813 Electric phenomena of nervs and muscles

Muscle-nerv experiments as indicativ of nervous process
For muscle phenomena see 612.743
- 2 Negativ variations
- 3 Electrotonus

.814 Chemic and thermic phenomena of nervous stimulation

For stimulation of nerv centers see 612.8222

.815 Physiologic morfology of nervous stimulation
- 1 Sensory terminations
- 2 Motor "

.816 Irritability of nervs and muscles

Nerv-muscle or nerv-gland physiology
- 1 Action of electricity
- 2 Theories of nerv waves
- 3 Nervous conductibility
- 4 Effect of blood on nervs Anemia
- 5 Rapidity of nerv waves
- 6 Nerv fatigue
- 7 Action of chemic substances on nervous irritability

.817 Effect of nervs on muscles and glands
- 1 Chemic substances Curare poisons
- 2 Voluntary contraction
- 3 Tonicity Atrofy of muscles after cutting nervs, etc.

See also 612.7465

.818 Trofic nervs
- 5 Degeneration, regeneration and cicatrization

1 Degeneration 2 Regeneration 3 Cicatrization

612.819 **Special nervs**

Whenever possible class according to function rather than according to a particular nerv, classing here only special nerv physiology

1 1st pair: olfactory

2 2d pair: optic

See also 612.843

3 3d pair: motoroculi or oculomoto

31 **Innervation of iris**

See also 612.8422

32 **Innervation of eyelids**

See also 612.847

33 **Innervation of eye muscles**

4 4th pair: trochlear or pathetic

5 5th " : trigeminal

52 **Sensory action**

53 **Trofic action**

6 6th pair: external oculomoto or abducent

7 7th " : facial

71 **Effect on facial muscles**

73 " " **respiration**

74 " " **hearing**

75 " " **deglutition and taste**

77 " " **salivation Chorda tympani**

See also 612.31387

78 **Pathology Facial paralysis**

8 8th pair: auditory

See also 612.8585

9 9th pair: glossopharyngeal

91 10th " : pneumogastric or vagus

911 **Effect on hart and circulation**

See also 612.1781

912 **Effect on respiration**

See also 612.287

913 **Effect on digestiv organs**

See also 612.328, 612.338, 612.348, 612.358, 612.368

915 **Effect on kidneys and other glands**

See also 612.4

917 **Effect on voice production**

See also 612.7822

918 **Section of vagus and pneumogastric**

92 11th pair: spinal accessory

921 **Anastomosis with vagus**

922 **Innervation of respiratory organs**

See also 612.28

923 **Innervation of vocal organs**

See also 612.7893

93 12th pair: hypoglossal

94 Spinal nervs in particular

941 **Phrenic nerv**

612.82 Nervous centers Brain

.821 **Physiologic psychology**

Usually better clast in 130 Mind and body

1 Time of reaction to stimulation Psychometry

2 Attention Memory Association Imagination

3 Instinct Intelligence Emotions Sensibilitv

31 Comparativ psychology

311 Nonautomatic actions of animals Anticlisis

312 Automatic " " "

For physiologic aspect see 612.829

313 Instincts of animals Behavior See also 591.51

33 Emotions Sensibility

34 Inhibition of movement Will Habit Impulse

35 Associated movements

4 Action of poisons on intelligence

See also 613.8 Hygiene of nervous system

" " 615.9 Toxicology

41 Alkaloids

42 Nonalkaloid anesthetics

See also Therapeutics, 615.96 Cerebral poisons

44 Alcohol

See also Therapeutics, 615.964 Alcohol as cerebral poison

Pathology 616.861 Alcoholism

5 Effect of disease on intelligence

6 Psychic reflexes

7 Sleep Hypnotism

See also 135 Sleep, Dreams

71 Hypnotism See also 134 Mesmerism, Hypnotism

73 Theories of sleep

74 Cerebral circulation in sleep

75 Chemic phenomena of organism in sleep

76 Dreams

8 Sense in general and theories of perception

88 Psychophysical laws

89 Sensory delusions

For optic illusions see also 612.84374

.822 **Nerv cells and nerv centers**

1 Chemistry of nervous tissue

Metabolism in nervs

2 Chemic fenomena of nervous excitation

For stimulation of nerv fibers see 612.814

3 Electromotiv fenomena of nervous excitation

4 Thermic " " " "

5 Physiologic morfology " " "

53 Effects of fatigue

54 " " poisons

56 Degeneration and regeneration of centers

6 Effects of removal and experimental, pathologic or teratologic lesion of nerv centers

61 Movement in a circle (motus circularis, manége)

7 Decapitation

8 Action of central nervous system on chemic phenomena of organism

See also 612.01538, 612.8012

81 Effect of chemic changes on centers

612.823 **Weight and general morfology of brain**
5 Conduction in centers
.824 **Cerebral circulation**
1 Neurolymf, neurolympha or cerebrospinal fluid Meninges Choroid plexus
2 Brain movements
3 Cerebral vasomotors
4 " anemia
5 Pressure on nerv centers
55 **Compression and concussion of brain Abnormal pressure**
6 Temperature of blood in nerv centers
Effect of abnormal pressure
.825 **Cerebral convolutions (cortex)**
1 Cortical excitability
2 Psychomotiv centers 'Localizations
23 **Inhibitory actions**
See also 612.8338
24 **Localization in man**
249 Speech Aphasia
See also 612.7893
25 Localization in animals
26 **Topografy of localizations**
261 Frontal lobe
262 Occipital "
263 Parietal "
264 Temporal "
265 Central "
266 Olfactory "
3 Cortical epilepsy
See also 616.853
5 Sensory functions of convolutions
Convolutions as seat of senses
54 **Sight**
55 **Hearing**
56 **Smell**
57 **Taste**
58 **Muscular sense**
See also 612.885
59 **Touch**
See also 612.88
8 Intellectual functions
Only for physiology of these functions
.826 **Cerebral ganglions, commissures, etc.**
1 Optostriate body and callosum
Or optic thalami, striatum and callosum
2 Conduction in the brain
See also 612.8235
3 Crura or cerebral peduncles Epiphysis Infundibulum
5 Quadrigeminum Optic lobes
7 Cerebellar peduncles or prepeduncles
8 Pons

612.827 **Cerebellum**

.828 **Medulla oblongata or postoblongata**

.829 **Special physiology of central nervous system of invertebrates**

See also 612.8226

1 Regulating effect of ganglia Circular movements (manége)

2 Chain of ganglions Network of nervs, or rete nervosum

3 Reflex movement

Locomotion in respect to physiology of nervous system

31 Reflexes proper

32 Rhythm Refractory period

33 Tonicity Tonic reflex

34 Coordination

.83 Spinal cord or myel

.831 **Conduction in the cord**

See also 612.8235

.832 **Excitability of cord**

.833 **Reflex action**

Subdivide like 612; e. g. 612.83317 Cardiac reflexes
612.83362 Uterin "
612.8337 Limb reflexes; knee jerk

8 Action of superior nerv centers on reflexes

9 Other phenomena of reflex action

91 **Rapidity of reflexes**

92 **Pathology**

93 **Effect of anemia**

94 **Action of poisons on reflexes**

95 **Rhythm in general**

951 Refractory period

96 **Coordination**

97 **Other fenomena**

e. g. reflexes according to nature of impulse: fatigue, etc.

.834 **Cord as center of innervation**

.835 **Degeneration and regeneration of cord** **Atrofies**

.84 Physiologic optics Sight

.841 **Fibrous tunics of eye**

1 Cornea Conjunctiva Anterior chamber

5 Sclera

.842 **Vascular tunics** **Iris** **Choroid** **Ciliary body**

1 Iris accommodation

See also 612.844 for general papers on accommodation

11 **Pupillometers**

2 Action of nervs and nerv centers on pupil

3 Effects of light

4 Action of chemic substances on iris Atropin See 615.784

5 Choroid Eye pigments

6 Ocular circulation Intraocular pressure

61 **Ofthalmometers**

612.843 **Optic nerv Retina**
See also 612.8192 2d pair of cranial nervs; optic
1 Physiologic morfology Retinal purple
12 **Ofthalmoscope**
13 **Retinal circulation**
14 " **purple**
15 **Physiologic morfology of retina**
2 Irradiation
3 Color sense Chromatic sensibility
31 **Color sight**
Power to distinguish colors
For color blindness see 612.8455; 617.75
32 **Sensitiveness to color**
For pathology of chromatic sensibility see 612.8455
34 **Mixture of colors**
35 **Contrast of colors**
4 Entoptic fenomena
5 Persistence of retinal impressions
6 Field of vision Visual acuteness and sensibility
61 **Photometry**
Photometric technic
62 **Field of vision**
63 **Visual acuteness and sensibility**
.7 Conduction in the brain Perception
71 **Histology of fibrillae Center of sight**
72 **Optic perceptions Localization of image in space**
721 Binocular perception Stereoscopy Perception of distance, size and form
Perception of differences in hight of surface For movement see 612.8462
73 **Impression of color suggested by sound, auditus coloratus**
74 **Optic illusions**
75 **Observations on those born blind**
78 **Degenerations of optic nerv and fibrillae**
.844 **Refractory apparatus Ocular refraction**
See also 612.8421
1 Crystailin lens
4 Aqueous humor
7 Vitreous humor
.845 **Functional disorders or pathology of sight**
See also 617.75
1 Myopia
2 Hypermetropia
3 Astigmatism
4 Presbyopia
5 Daltonism Color blindness
See also 612.84331 Color sight; 617.75 Disorders of vision
6 Hemeralopia

612.846 **Movements of eye**
2 Binocular vision
For perception see 612.843721
3 Action of 3d cranial or oculomoto nerv
4 " " 4th " or trochlear nerv
6 " " 6th " or abducent nerv
8 Strabismus Diplopia
.847 **Palpebral and lacrimal apparatus**
.85 Hearing
.851 **External ear: functions**
.854 **Middle ear**
.855 Tympanic membrane or drumhed Tympanum
.856 Eustachian tube
.857 Bones
.858 **Internal ear**
1 Conduction of sound in internal ear
2 Utricle Saccule
3 Semicircular canals
See also 612.8863 and 616.841 Vertigo
4 Cochlea Corti's organ or fibers Spiral organ
5 Acoustic nerv
6 Endolymph
7 Acoustic perception Conduction of acoustic excitation in the brain
71 **Auditory acuteness**
72 **Auditory center in brain**
See also 612.82555
73 **Subjectiv sensations**
74 **Musical physiology and psychology**
Distinction of tones and quality or tone color (timbre)
75 **Binaural hearing**
751 Localization of sound in space Estimation and effect of distance
76 **Sensibility of living beings to sound and vibrations Otocysts**
8 Auditory reflexes
.86 Smell
See also 612.82556 Seat of smell
.867 **Perceptions Conduction in the brain**
.87 Taste
.875 **Function of lingual nerv**
See also 612.8195
.877 **Function of chorda tympani**
See also 612.81977
.879 **Function of glossopharyngeal nerv**
See also 612.8199

612.88 Touch Tactil sense Equilibrium

.881 Notion of space

.882 Sense of temperature

.883 Sense of pressure

Including all related phenomena; e. g. tickling

1 Esthesiometers

.884 Sensibility to pain

.885 Muscular sense Power sense

.886 Sense of equilibrium

1 Sense of direction and orientation

2 Seasickness

3 Vertigo

See also 612.8583

9 Function of special organs

Function of lateral line of fishes and other special organs of owe animals

.887 Anesthesia, hyperesthesia, synesthesia

.89 Sympathetic nervous system

.8903 Trofic action

.8905 Reflex phenomena

.891 Cervical ganglions and plexus

.892 Thoracic " " "

.893 Abdominal " " "

.896 Action on eyes; iris

See also 612.8422

.897 Action on hart

See also 612.1782

.898 Action on digestiv tract; alimentary canal

See also 612.3 and special subdivisions

.899 Effect on blood vessels

See also 612.18

613 Personal Hygiene

Care of Health; Prophylaxis; Individual Health; Laws of Health.
.02, Compends; .03, Dictionaries, Cyclopedias; .04, Essays; .05, Periodicals; .06, Societies; .07, Study and Teaching; .08, Sanitary Appliances; .09, History, Description, Reports, etc., divided like 930–999.

.1 Air and Light.

For Air Analysis, see 543.7; Air Pollution, 614.7; Ventilation, 628.8.

.11 Climate. Acclimation. See 551.5, Meteorology; 615.834, Therapeutics; 614.42, Geographical distribution of disease.

.12 Health Resorts. Mountain. Sea-shore.
Regions exempt from special diseases.

.13 Seasons. Time of Day.

.14 Malaria. Moisture. Ground Air. See Public Health, 614.775, 614.773 and 614.772.

.15 Purification of Air.

.16 Special Influences. Ozone, Electricity, etc.

.17 Quantity of Air Necessary.

.18 Temperature. See also 536.5, Heat; 551.52, Meteorology.

.19 Sunlight.

.2 Food. Dietetics.

For Food Analysis, see 543.1; Adulterations, 614.31; Digestion and Nutrition, 612.3.

.21 Dietaries.
Including food for special classes of people; literary men, soldiers, etc.

.22 Food for Infants.

.23 Food for the Sick.
Including means for giving nutrition, baths, enemeta, forced alimentation, etc.

.24 Fasting. Famine. Starvation.

.25 Excess of Food.

.26 Vegetable Food.

.27 Fruits.

.28 Animal Food. Meats.

.29 Fish, Oysters, etc.

.3 Beverages.

For alcoholic beverages, see 613.81 and 178, Temperance Ethics; Inspection of beverages, 614.34.

.31 Water as a Beverage.

.32 Impurities in Water and Ice. See also 628.16, Water supply of towns.

.33 Microscopical Analysis. For Chemical Analysis, see 543.3.

.34 Biological Analysis.

.35 Purification. Filtration, Boiling, Chemical, etc. See also 628.16, Water Supply.

.36 Cold Drinks.

.37 Hot Drinks. Tea, Coffee, etc. See also 614.347, Adulterations.

.38 Mineral Waters, Carbonated Waters, etc. See also 614.348, Adulterations; 615.79, Therapeutics

.39 Other Beverages.

613.4 Cleanliness of Body. Clothing.

See also 646, Clothing, Toilet, etc.; 391, Customs, Care of Person, Bathing, Toilet. For Therapeutic baths, electric, sulphur, etc., see 615.67.

.41 Baths.
.42 Warm.
.43 Cold. For Swimming, see 796.
.44 Douche or Shower.
.45 Sea. Salt.
.46 Hot Air. Turkish. Russian. Roman, etc.
.47 Public.
.48 Clothing.
1, Material, wool, cotton, etc.
2, Quantity.
3, Cleanliness.
4, Pressure. Corsets, garters, tight boots, support from hips, etc.
.49 Care of special parts of body.

.5 Human Habitation and Resort.

For Heating, see 697; Ventilation, 628.8; House drainage, 628.6; Sanitation of towns, 628.4; Industrial sanitation, 628.5.

These subjects, partly Public and partly Private Hygiene, are for convenience grouped together here.

.51 Homes.
.52 Hotels.
.53 Tenements.
.54 Schools. Colleges. See School hygiene, 371.7.
.55 Churches, Theaters, Halls, etc.
.56 Hospitals. Asylums.
.57 Prisons. Reformatories.
.58
.59 House Furnishing.
1, Bed and Bedding.
2, Curtains. Tapestries.
3, Carpets. Rugs. Floors.
4, Wall Paper.
9, House Cleaning.

.6 Hygiene of Employment.

For Labor of children, see 331.3; Mining dangers and accidents, 622.8; see also Laboring classes, 331.8; Industrial sanitation, 628.5; Nuisances, 614.7.

.61 Over-hours. Over-work.

Occupations made Injurious.

.62 By Inhalation of Vapors and Gases.
Bleachers, match-makers, lard refiners, etc.
.63 By Inhalation of Dust or by Absorption.
Grinders, stone-cutters, millers, wool operatives, hair pickers, type founders, grocers, etc.
.64 By Elevated, Low, or Variable Temperature.
Bakers, forgemen, mariners, fishermen, farmers, laborers, etc.
.65 By Over-use of certain Organs. By Constrained Attitude and Sedentary Life.
Engravers, public speakers, copyists, printers, salesmen, clerks, literary men, etc. See also Mental hygiene, 131.
.66 By Accidents. See Public health, 614.8, Protection from accidents.
Machinists, quarrymen, caisson-workers, manufacturers of explosives, etc.
.67 Military Hygiene. Barracks, Camp and Tent Life.
.68 Naval Hygiene. Ship Life.
.69 Hygiene of Travel and Exploration.

613.7 Hygiene of Recreation and Sleep.

.71 Gymnastics. See also 371.73, School Hygiene, Care of Body
For Curative gymnastics, see 615.82, Massage.

.72 Athletics and other Muscular Exercise.
See also 796, Out-door sports.

.73 Training and Overstrain. See also 371.75, Championship games.

.74 Amusement or Play.
See also 796, Out-door sports, and 371.74, Recreations.

.75 Parks.
Some subjects more properly placed in Public Health, are grouped here by attraction.

.76 Vacations. See also 371.23, School Vacations.

.77 Holidays. See also 371.23, School Holidays.

.78

.79 Rest and Sleep. Late Hours. See 613.86, Insomnia.

.8 Hygiene of Nervous System.

Including the action of Stimulants and Narcotics. See also 615.78, Drugs acting on Nervous System; 615.95, Neurotic Poisons.
For Mental overwork, see 131, Mental Hygiene. See also 178, Temperance

.81 Alcohol. See also Temperance, 178; Beverages, 613.3; Inspection of Beverages, 614.34.

.82 Opium and Hashish. See also 178.8.

.83 Chloral and Caffeine. See also 178.8.

.84 Tobacco. See also 178.7.

.85 Other Narcotics.

.86 Insomnia. See also 613.79, Rest and Sleep.

.87 Morbid Habits. Bad Social Customs. See also Social Ethics, 177.

.88 Luxury. Privation.

.89 Celibacy. Monogamy. Polygamy.
See also Polygamy and Monogamy, 173.2; Sexual Ethics, 176; Celibacy of Clergy, 254; Asceticism, 248.

.9 Hygiene of Offspring. Heredity.

See also Heredity, 575.1.

.91 Congenital Defects of Body.
See also Monstrosities, 573.9; and Orthopædic Surgery, 617.3.

.92 Inherited Mental Disability.
See also Mental heredity, 136.3; Mental derangements, 132; and Mental physiology and hygiene, 131.

.93 Transmitted Disease.
See also special diseases in 616.

.94 Stirpiculture. Eugenics.

614 Public helth

Public hygiene Public sanitation State medicin Preventiv medicin
See also 628, Sanitary engineering; 352.4 Boards of helth
.02 Compends .03 Dictionaries, cyclopedias .04 Essays .05 Periodicals .06 Societies, conventions .07 Education .08 Sanitary appliances, exhibitions .09 History, description, legislation, reports, etc. divided like 930-999, e. g. 614.0942 Public helth in England

.1 **Registration and vital statistics** See also 312 Population
.11 Births and birth rates
.12 Deths and deth rates
Divided geograficly like 930–999, e. g. Deth rate in England, 614.1242
.13 Mortality at different ages
For life insurance, life tables, biometry, etc. see Life insurance, 368.3, and Life contingencies, 519.5; Longevity, 612.68
.131 Stillbirths
.132 Infant mortality
.133 Mortality in childhood
.134 " " adult life
.135 " " old age
.14 Mortality of sexes, races, etc.
.141 " " the sexes
.142
.143
.144 " " races: colored, white, indian, etc.
.145 " " city and country
.146 " " different occupations See also 613.6
.147 " from special diseases Causes of deth
.15 Morbidity
.16
.17 Marriage
.18 Divorce See also 173.1 Family ethics
.2 **State control of medicin**
.21 Medical education and degrees See 610.7; 378.2 Academic degrees
.22 Anatomy and vivisection laws See 179.4 Ethics
.23 Expert testimony and other medico-legal relations
See 340.6 Medical jurisprudence
.24 Registration of physicians, dentists, pharmacists, etc. License to practis
.25 Regulation of medical practis
See 174.2 Professional ethics, physicians
.26 Quackery and malpractis
.27 Nostrums and patent medicins See also 614.353 Adulterations
.28 Sale of poisons See 615.9 Toxicology
.29 Medical police

614.3 Adulterations: inspection of articles liable to affect public helth Pure food laws
Public analysts State laboratories For chemic analysis see 543
.31 Inspection of food For chemic analysis see 543.1; Hygiene 613.2
.311 Sugars Sirups Confectionery
.312 Cereals Starches Bred
.313 Lards Fats Oils See 614.325–6 Butter, oleomargarin
.314 Spices Condiments
.315 Yeast Baking powders Cream of tartar
.316 Fresh food Vegetables, fruits
.317 Meats Fish (fresh)
.318 Cand or preservd food Vegetables, fruits
.319 Meat Fish Oysters (preservd)
.32 Milk and milk products
.321 Milk analysis See also chemistry, 543.2; dairy. 637.1277
.322 Milk of known purity
.323 Milk sold to consumer
.324 Cream Skimd milk Condenst milk Buttermilk Kumiss
.325 Butter and its imitations
.326 Oleomargarin
.327 Cheese and its imitations
.33 Other articles of food
.34 Inspection of beverages
For chemic analysis see 543.1; hygiene, 613.3
.341 Fermented
.342 Wine
.343 Brewd
.344 Beer
.345 Distild
.346 Fruit drinks: lemonade, shrub, etc.
.347 Tea Coffee Chocolate Coco See also 613.37, Hygiene
.348 Mineral waters Soda water
See also 613.38, Hygiene; 615.79 Therapeutics
.349 Mixt drinks
.35 Inspection of drugs For chemic analysis see 543.4
.351 Officinal or pharmacopeial drugs
.352 Nonofficinal drugs
.353 Empiric or patent medicins See also 614.27 State control
.354 Cosmetics
.355 Poisonous cosmetics
.36 Inspection of tobacco
.37 Inspection of pigments, wall and other papers, textil fabrics, toys, etc.

.4 Contagious and infectious diseases: general
.41 Causes and origin
See 589.95 Bacteria, microbes; 616.01 Germ theory of disease
.42 Geografic distribution Climatology
.43 Modes of propagation and communication

614.44 Prevention and restriction See also Ambulances, 614.882
.45 Isolation, lazarettos, etc.
.46 Quarantine, etc.
.461 **Maritime quarantine**
.462 **Inland "**
.463 **Control of rags, etc.**
.47 Protectiv inoculation
.471 **Against smallpox** See also 616.912, Pathology
.472 Variolation
.473 Vaccination
1 Bovine vaccination
2 Humanized vaccination
3 Vaccinal syphilis
4 Revaccination
5 Vaccinisation
6 Revaccinisation
7 Retrovaccination
8 Compulsory vaccination
9 Optional vaccination
.474 Antivaccination
.475 **Against cholera** See also 616.932, Pathology
.476 **" yellow fever** See also 616.928 Pathology
.477 **" hydrophobia Pasteurism**
See also 616.953 Pathology
.48 Disinfection
Houses, clothing, rags, workshops, cars, ships, camps, air, soil, persons, sewers, vaults, excreta. Ded, see 614.64 Embalming, etc.
.481 **Fumigating and other apparatus**
1 Stationary
2 Portable
.482 **Disinfectants Antiseptics Deodorizers**
Treated with reference to public helth. See also Materia medica 615.777 and 615.778
.483 Heat
.484 Chemic disinfectants
.485 Carbolic
.486 Salicylic
.487 Chlorids
.488 Copperas
.49 Epidemics Plagues
.5 **Contagious and infectious diseases: special**
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.51 Filth diseases
.511 Typhoid or enteric fever
.512 Diftheria
.513 Diarrheal diseases
.514 **Cholera**
.515 **Cholera-infantum**
.516 **Dysentery**
.517 **Diarrhea**

614.52 Exanthemata
.521 Smallpox
.522 Scarlet fever
.523 Measles
.524 Rötheln, rubella, rubeola
.525 Chickenpox
.526 Typhus
.53 Malarial fevers
.531 Intermittent fever
.532 Remittent fever
.54 Other contagious and infectious diseases
.541 Yellow fever
.542 Phthisis Tuberculosis
.543 Whooping cough
.544 Mumps
.545 Puerperal fever See also 618.72
.546 Leprosy
.547 Syphilis
.548 Gonorrhea
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.56 Diseases communicated from lower animals
.561 Anthrax Charbon
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.61 Burial
.611 Earth burial
.612 Tomb burial
.613 Burials in churches Intramural
.614 Use of perishable coffins
.62 Cremation Crematories
.63 Transportation of the ded
.64 Embalming and disinfection of the ded Use of ice
See 614.48 Disinfection; 615.777 Disinfectants
.65 Effect of cemeteries on helth
.651 By water pollution
.652 " air "

614.7 **Hygiene of the air and ground Nuisances**
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.71 Air pollution by dust and smoke [works
.72 Air pollution by noxious gases, mineral trades, chemic
.721 Carbon compounds
.722 **Carbonic oxid, carbonic acid, carburetted hydrogen**
.723 **Illuminating gases Gas works**
.724 **Mineral oil refining**
.725 Sulfur compounds
.726 Chlorin "
.727 Nitrogen "
.728 Phosphorus "
.729 Other
.73 Air pollution by vegetable trades
.731 Brewing
.732 Distilling
.733 Vinegar making
.734 Sugar refining
.735 Charcoal burning
.736 Varnish making
.74 Air pollution by animal trades
.741 Slaughter houses Abattoirs Fish
.742 Rendering works Boneboiling Tripe and gut cleaning
.743 Pork packing Lard refining
.744 Soap making
.745 Tanning
.746 Glue making
.747 Lampblack
.748 Commercial fertilizers
.75 Storage and handling of noxious and offensiv materials
.76 Other air pollutions See 628 Sanitary engineering
.761 Stables Stable manure
.762 Hog stys
.763 Offal Ded and diseased animals and fish
.764 Vaults Cesspools Water closets, privies, urinals, night soil
.765 Sewers and sewer outlets Sewer gas
.77 Conditions of soil as affecting helth
Topografy Sanitary Surveys
.771 Analysis of soils See 543.7 Chemistry
.772 Soil moisture
Hygiene of natural water courses and of marshes. See 613.14 Hygiene
.773 Ground atmosphere See 613.14 Hygiene
.774 Solid constituents of soil
.775 Malarious soils See 613.14 Hygiene
.776 Recovery of soils from pollution

614.78 Air and ground in towns
.781 Laying out of towns and streets
.782 Subways and elevated ways See 628.47 Sanitation of towns
.783 Parks Air spaces
.784 Hight of bildings and proportion of occupiable area
See 614.85 Bilding laws
.8 Protection of human life from accidents, casualties, etc.
See 613.66 Hygiene of employment
.81 Drowning
.811 Rescue of the drowning
.812 Resuscitation of the drownd First help Pulmotors
.82 Suffocation
By gases, in vaults, mines, etc.; see also 622.8 Mining dangers. By illuminating gases
.83 Explosions
.831 Manufacture and storage of explosivs and combustibles
See also 662 Chemic technology
.832 Gunpowder
.833 Dynamite, etc.
.834 Inspection of kerosene, etc.
.835 " of illuminating gas
.836 " of electric apparatus
.837 " of steam boilers
.84 Fires
.841 Fire prevention
.842 " detection
.843 " extinction See 352.3 Fire department
.844 Automatic
.845 Chemic extinguishers
.846 Fire engins Water towers See 621.68 Pumping engins
.847 Fire escapes and other apparatus
.848 " exits, etc. from public bildings
.85 Bilding laws Inspection of bildings
See 614.784 Hight of bildings
.86 Protection of travelers
.861 Travel on land
.862 " " highways
.863 " " railroads
.864 " " water
.865 Lighthouses, buoys, etc.
.866 Pilots
.867 Boats, life preservers, etc.
.868 Rescue of shipwreckt Lifesaving servis
.87 Exposure to cold Hospice of St Bernard
.88 Aid to injured
.881 Ambulance
.882 Ambulance for contagious diseases See also 614.44
.883 Bed wagon

614.9 **Hygiene of animals Veterinary sanitation**
.91 Infectious diseases of domestic animals
.92 Parasites of animals See 591.69 Economic zoology
.93 Animal diseases communicable to man See also 614.56
.94 Care and housing of animals
.95 Feeding of animals
.96 Transportation of animals
.97 Methods of slaughtering
.971 Painless extinction of animal life

615 Materia medica and therapeutics
.02 Compends .05 Pharmaceutic journals .06 Pharmaceutic societies
.07 Education, schools of pharmacy .09 History
.1 **Materia medica Drugs Pharmacology**
For examining boards, laws, etc. see 614.24 Registration of pharmacists. See also 614.35 Adulteration of drugs; 543.4 Chemic analysis
.11 Pharmacopœias
.12 Dispensatories
.13 Formularies
.14 Prescription writing Posology
.2 **Inorganic drugs**
Divided like 546. 615.218 Phosphorus; 615.258 Mercury; 615.272 Iron. See also note to 615.7
.3 **Organic drugs**
See also note to 615.7
.31 Carbon compounds Divided chemicly like 547
.32 Vegetable products Divided botanicly like 580
.33 Vegetable products Divided by character
1 Starches 2 Sugar 3 Glucosids 4 Tannins 5 Gums 6 Drugs containing alkaloids 7 Bitters 8 Organic acids
.34 Fixt oils and acids
.35 Ferments: diastase, pepsin, etc.
.36 Organotherapy
.37 Serotherapy
Opsonic theory; see also physiology, 612.118223
Vaccine therapy; see also public helth, 614.473 Vaccination
.4 **Practical pharmacy**
.5 Therapeutics Action of medicins in general
.51 Certainty of medicins
.52 Antagonism of medicins
.53 Law of similars Homeopathy
Homeopathic works are clast with the subjects treated. This hed is for Hahnemann's theory only
.54 Influence of age
Infant therapeutics Therapeutics of old age
.55 Influence of sex
.56 Influence of environment
.57 Influence of idiosyncrasy

615.6 Administration of medicins

.61 By stomach

.62 " rectum

.63 " subcutaneous tissue Hypodermic medication

.64 " lungs Inhalation See also 612.385 Absorption

.65 " veins Transfusion of blood

.66 " serous and mucous membranes Peritoneum, vagina, etc.
See also 612.387 Absorption

.67 " skin Baths
See also physiology 612.384

.7 Medicins groupt by effects

Treatises on specific drugs, digitalis, ergot, etc. are clast in the divisions of materia medica, 615.2–615.3; iron, 615.272; digitalis, 615.32381

.71 Drugs acting on circulatory system

.711 Stimulants
Alcohol, ammonia, digitalis, coffee, ergot

.716 Depressants
Aconite, veratrum group, nitrites

.72 Drugs acting on respiratory system

.721 Expectorants

.726 Errhines Sneezing

.73 Drugs acting on digestiv system

.731 Emetics
Ipecac, mustard, metallic salts, apomorphin

.732 Cathartics
1 Laxat vs 2 Salines 3 Purgativs 4 Hydragogs 5 Drastics 6 Mercurials

.733 Anthelmintics

.734 Aids to digestion
1 Bitters, tonics 2 Ferments, pepsin, pancreatin, etc. 3 Acids, antacids

.735 Demulcents, emollients, etc.
Bismuth, oxalate of cerium, etc.

.74 Drugs acting on glandular system

.741 Sialagogs (Saliva)

.742 Cholagogs (Bile)

.743 Diaphoretics (Perspiration)
Pilocarpin, heat, exercise

.75 Antipyretics Antiperiodics
Quinin, salicylates, coal-tar products, kairin, antipyrin, antifebrin, cold, baths. See also 613.41 Baths

.76 Drugs acting on genito-urinary system

.761 Diuretics
Water, citrates, acetates, digitalis, caffein, copaiba

.766 Uterins Oxytocics
Viburnum, ergot, etc.

615.77 External agencies
.771 Irritating
.772 **Astringents**
.773 **Rubefacients**
.774 **Epispastics** **Blisters**
.775 **Escharotics** Caustic potassa
.776 Protectiv Emollient
Fats, oils, powders, starch, bismuth, oxid of zinc
.777 Deodorants Disinfectants
See 614.48 Disinfection; 614.64 Disinfection of ded
.778 Antiseptics Germicides
.78 Drugs acting on nervous system See also 615.95 Neurotic poisons
.781 Anesthetics Chloroform, ether
.782 Hypnotics Chloral, bromids
.783 Analgesics Opium
.784 Mydriatics Belladonna
.785 Excitants Strychnin
.786 Depressants Conium
.788
.789 Other drugs
Camfor, valerian, asafetida
.79 Mineral waters See also 613.38 Hygiene; 553.7 Occurrence in nature
.8 Other remedies
.81 Mechanical remedies
.811 Bloodletting Venesection Cupping
.812 Setons and issues
.813 Bandages Ligatures
.814 Acupuncture
.815 Pneumatic aspiration
.82 Manipulation Exercize
See also Hygiene, Massage, Osteopathy, curativ gymnastics
.83 Imponderable remedies
.831 Light Blue glass
.832 Temperature: heat, cold
833 Moisture
.834 Climate See also 613.1 Hygiene
.835 Altitude
Decrease of oxygen and increase of nitrogen with increasing elevation
.836 Pneumatic differentiation
.837 Music
.84 Electricity Electrotherapeutics Radiotherapy
See also 537.87 and 621.3915

615.85 Cures
.851 Mind cure Influence of mind on body
Mental condition as affecting disease; occupation as remedy
See also 130 Mind and body
.852 Faith cure Christian science See 265.8 Religion
See also state control of medicin, 614.24; Christian science theology, 230.95; sects 289.5
.853 Hydrotherapy Water cure
.854 Food cures: grapes, milk, beef, etc.
.855 Thomsonianism Herb doctors
.856 Perkinism Metallic tractors
.86
.87
.88 Patent medicins
.89 Ancient and medieval remedies
Including those of modern uncivilized peoples
.9 Toxicology Poisons
For other relations see Poisons, in Relativ index following Tables
.91 Irritant poisons
.92 Mineral irritants
.921 Acid poisons
.922 Alkalin poisons
.923 Nonmetallic poisons
.924 Phosphorus See also 615.218 Drugs
.925 Metallic poisons
.926 Arsenic See also 615.219 Drugs
.927 Mercury See also 615.258 Drugs
.928 Led Painters colic See also 615.251 Drugs
.929 Copper See also 615.256 Drugs
.93 Vegetable irritants
Hellebore, aloes, croton oil, etc.
.94 Animal poisons
Cantharides, diseased meat, ptomains, tyrotoxicon, etc.
.95 Neurotic poisons
See also 615.78 Drugs acting on nervous system
.96 Cerebral or narcotic poisons Carbonic oxid and acid
.961 Opium
.962 Prussic acid
.963 Cyanids
.964 Alcohol
.965 Ether
.966 Chloroform
.967 Chloral hydrate
.97 Spinal poisons
Nux vomica, strychnia
.98 Cerebrospinal poisons
Aconite, belladonna, lobelia
.99 Cerebrocardiac poisons
Digitalis, tobacco

616 Pathology Diseases Treatment

May be subdivided by 0 like 610, if wisht. Use 616.01 for etiology, germ theory, bacteriology, classification of diseases. Use 616.07 for diagnosis, study of disease, and subdivide it as follows: 1 Pulse 2 Tung 3 Eye, skin, etc. 4 Auscultation, percussion 5 Thermometry 6 Chemistry, urin analysis 7 Microscopy, radioscopy, etc. 8 Pathologic anatomy 9 Postmortem examination

.1 **Diseases of circulatory system**
.11 Membranes of the hart
.12 Hart Angina pectoris
.13 Arteries
.14 Veins
.15 Blood
.2 **Diseases of respiratory system**
.201 Croup
.202 Hay asthma, hay fever
.203 Influenza, epidemic catarrh
.204 Whooping cough See also 614.543
.205 Coryza, catarrh
.206 Asphyxia
.21 Nose Naso-pharyngeal space
.22 Larynx
.23 Trachea Bronchi Bronchitis Asthma
.24 Lungs
.241 Pneumonia, lung fever
.242 Congestion
.243 Hemorrhage
.244 Abscess
.245 Gangrene
.246 Phthisis, tuberculosis, consumption See also 614.542
.247 Embolism and aneurism of pulmonary artery
.248 Emphysema
.249 Collapse
.25 Pleura Pleurisy
.3 **Diseases of the digestiv system**
For diseases of teeth see 617.6
.31 Mouth: tung, fauces Sore throat, quinsy, mumps
See also 614.544
.32 Pharynx Esophagus
.33 Stomach Gastritis, dyspepsia, vomiting
.34 Intestins Hernia, diarrhea, constipation, colic
.35 Rectum Anus Piles
.36 Liver Gall bladder Jaundis
.37 Pancreas
.38 Peritoneum Omentum Mesentery Peritonitis
.39 Dietetic diseases
Surfit, starvation, scurvy, dyspepsia

616 .4 Diseases of lymphatic system and ductless glands
.41 Spleen
.42 Lymphatics: thoracic duct
.43 Thymus
.44 Thyroid body Goiter, Graves disease
.45 Suprarenal bodies
.5 Dermatology Skin diseases
.51 Inflammatory affections
Diffuse, papular, scaly, nettlerash, hives
.52 Catarrhal, vesicular, pustular Eczema, shingles
See also 614.561
.53 Disorders of sebaceous glands
.54 Hypertrofies Atrofies
Corns, warts, white hair, baldness
.55 New formations Pigmentary changes
Albinism, freckles
.56 Disorders of swet glands
.57 Parasitic diseases See 616.96 Parasitic diseases
.58 Other skin diseases
Chilblain, frostbite, chaps
.6 Diseases of genito-urinary system
For diseases of women, see 618
.61 Kidneys Ducts Bright's disease
.62 Bladder Calculus
.63 Urinary disorders Diabetes
.64 Male urethra
.65 Prostate
.66 Penis
.67 Scrotum
.68 Spermatic cord Testes
.69 Functional diseases of male generativ organs Spermatorrhea, impotence
.7 Diseases of organs of locomotion
.71 Bones (except spine)
.72 Joints (except spine)
.73 Spine Curvature
.74 Muscles
.75 Tendons Fasciæ
.76 Bursæ Sheaths of tendons
.77 Connectiv tissue
.8 Diseases of nervous system
.81 Diseases relating to cerebrospinal circulation Apoplexy
.82 Diseases relating to cerebrospinal meninges
.83 Structural diseases of brain and cord

616.84 Functional diseases of brain and cord For insanity see 132.1
.841 Vertigo
.842 Paralysis
.843 Neurasthenia
.844 Spinal irritation
.845 Eclampsia, convulsions See also obstetrics, 618.75
.85 Neuroses
.851 Chorea, St Vitus dance
.852 Hysteria See 135 Somnambulism, 132.4 Catalepsy, 132.3 Hypochondria
.853 Epilepsy
.854 Tetanus, lockjaw
.855 Aphasia
.856 Anesthesia, hyperesthesia
.857 Megrim, sick hedake
.86 Neuroses due to special poisons
.861 Alcoholism See also Dipsomania, 132.7
.862 Metallic tremor
.87 Diseases of nervs Neuralgia, cramp
.88 Diseases of sympathetic system
.9 General diseases
.91 Infectious diseases
.911 Eruptiv fevers
.912 Small pox See also 614.471 and 614.521
.913 Cowpox
.914 Chickenpox See also 614.525
.915 Measles See also 614.523
.916 Rubella, rubeola, rötheln See also 614.524
.917 Scarlet fever, scarlatina See also 614.522
.92 Other fevers General works on fevers
See also 612.57 Animal heat
.921 Dengue, breakbone fever
.922 Typhus See also 614.526
.923 Plague
.924 Relapsing fever, famin fever
.925 Cerebrospinal fever
.926 Simple continued fever
.927 Enteric fever, typhoid fever See also 614.511
.928 Yellow fever See also 614.476 and 614.541
.93 Diftheria Cholera Malarial fever
.931 Diftheria See also 614.512
.932 Asiatic cholera See also 614.475 and 614.514
.933 Sporadic cholera
.934 Epidemic diarrhea See also 614.517
.935 Dysentery See also 614.516
.936 Malarial fever See also 614.53

616.94 Septic diseases
.941 Phagedena
.942 Erysipelas
.943 Pyemia
.944 Septicemia
.95 Venereal diseases Hydrophobia, etc.
.951 Syphilis See also 614.547
.952 Gonorrhea See also 614.548
.953 Hydrophobia See also 614.477 and 614.563
.954 Glanders See also 614.564
.955 Horsepox
.956 Splenic fever
.96 Parasitic diseases See also 614.55
.961 Animal parasites
See 591.69 Economic zoology; 614.92 Parasites of animals
.962 Entozoa
.963 Trematoda, flukes
.964 Cestoda, tapeworms
.965 Nematoda Round worms, thredworms, trichinæ
See also 614.562
.966 Acanthocephala, thornheded worms
.967 Insecta parasitica Maggots
.968 Ectozoa
1 Insecta parasitica: mosquitoes, gnats, bedbugs, fleas, lice
5 Arachnida parasitica: mites, ticks
8 Suctoria parasitica, leeches
.969 Vegetable parasites See 581.69 Economic botany
.97 Effects of poisons See 615.9 Toxicology
.98 Effects of injuries and climate
.981 Presence of foren bodies
.982 Mechanical injuries
.983 Excessiv exertion and strain
.984 Excessiv venery
.985 Privation
.986 Exhaustion
.987 Chemic agents
.988 Climate
.99 Other general diseases
.991 Rheumatism, rheumatic fever Gout
.992 Tumors
.993 Nonmalignant: cysts, wens
.994 Malignant: cancer
.995 Tubercle
.996 Scrofula Rickets
.997 Myxedema Cretinism
.998 Leprosy See also 614.546

617 Surgery

May be subdivided by 0 like 610, if wisht

.1 **Injuries**

.11 Burns and scalds

.12 Lightning and electric shock

.13 Contusions and abrasions

.14 Wounds

.141 Incised

.142 Contused

.143 Lacerated

.144 Punctured

.145 Gunshot See 617.99 Military surgery

.146 With lodgment of foren bodies

.147 With complete separation of parts

.148 Poisond See 615.9 Toxicology

.15 Fractures

.16 Dislocations

.17 Sprains

.18 Asphyxia

.2 **Results of injuries**

Constitutional effects and other complications. See also 616.94 Septic diseases

.21 Shock

.22 Inflammation

.23 Abscess Sinus Fistula

.24 Ulcers Sores

.25 Mortification Gangrene

.26 Traumatic fever

.27 Tetanus See also 616.854

.3 **Orthopedic surgery Deformities**

For convenience the whole subject of deformities is clast here, tho many of them have no surgical treatment. See also 573.8 Dwarfs and giants; 573.9 Monstrosities 611.012 Terafclogy; 613.91 Congenital defects

.31 Incomplete development or growth

Divided like 611 Anatomy

.32 Incomplete coalescence of parts: harelip

.33 Coalescence of parts

.34 Extension of commissure (Apparent duplication)

.35 Coalescence of fetuses Siamese twins

.36 Supernumerary parts or organs: extra fingers or toes

.37 Disproportionate growth of parts

.38 Transposition or displacement of parts

.39 Congenital distortions, including talipes, club foot

617.4 Surgical operations
.41 Circulatory system
.42 Respiratory system
.43 Digestiv system
.44 Glandular and lymphatic system
.46 Genito-urinary system
.47 Motor and integumentary system
.48 Nervous system
.5 Regional surgery
.51 Hed Trephining
.52 Face Mouth See 617.6, Dentistry; 617.7, Eye; 617.8, Ear
.53 Neck Throat
.54 Chest
.55 Abdomen
.56 Pelvis
.57 Upper extremities Artificial arms, hands, etc.
.58 Lower extremities Artificial legs, feet, etc.
.6 Dentistry Diseases of teeth
.61 Diseases of dental pulp
.62 Diseases of dentin and cementum
.63 Diseases of dental periosteum
.64 Malposition and malformation of teeth
.65 Odontalgia, toothake
.66 Extraction of teeth
.67 Stopping teeth
.68 Transplanting teeth
.69 Artificial teeth
.7 Ophthalmic surgery Diseases of the eye
.71 Conjunctiva Cornea Sclerotic Ophthalmia
.72 Iris Choroid Ciliary body
.73 Optic nerv Retina
.74 Lens and its capsule Vitreous humor Affections of the globe Cataract
.75 Disorders of vision
Myopia, shortsightedness, astigmatism, colorblindness, daltonism. See also physiolgy, 612.845
.76 Muscular apparatus Lacrimal apparatus
Strabismus, squint
.77 Eyelids
.78 Orbit and neighboring parts
.79 Artificial eyes

617.8 **Diseases of the ear**
.81 Affections of external ear
.82 Auricle
.83 Auditory canal
.84 Affections of middle ear
.85 Membrana tympani
.86 Eustachian tubes
.87 Mastoid cells
.88 Affections of internal ear
.89
.9 **Operativ surgery**
See 615.781 Anesthetics
.91 Armamentaria Surgical instruments
.92 Orthopedic appliances Splints, trusses, etc.
See 617.3 Orthopedic surgery
.93 Surgical dressings
.94 Amputation Resection
.95 Plastic surgery
.96
.97
.98
.99 Military surgery

618 Diseases of women and children
.1 **Gynecology Diseases of women**
.11 Ovary
.12 Fallopian tube
.13 Periuterin diseases
.14 Uterus and cervix
.15 Vagina
.16 Vulva
.17 Functional and symptomatic disorders
Diseases of menstruation Leucorrhea Sterility
.18
.19 Diseases of brest

618.2 Obstetrics

.21 **Pregnancy Physiology**
.22 Diagnosis Signs of pregnancy
.23 Duration
.24 Hygiene Management
.25 Multiple pregnancy: twins, etc.
.3 **Pathology of pregnancy**
Diseases of pregnancy and their treatment
.31 Ectopic gestation Extra-uterin pregnancy
.32 Pathology of ovum
.33 Deth and retention of fetus
.34 Pathology of fetal appendages
.35 Decidua
.36 Placenta
.37 Amnion
.38 Umbilic cord
.39 Abortion Miscarriage Stillbirth Molar pregnancy
See 173.4 Infanticide; 340.6 Medical jurisprudence; 343 Criminal law
.4 **Parturition Labor Physiology**
.41 Mechanism of labor
.42 Presentations Positions
.43 Clinic course and phenomena
.44 Conduct of normal labor Management
.5 **Pathology of labor**
Abnormal labor from faults
.51 of powers Anomalies of expellent forces
.52 of passages Mechanical obstacles to expulsion of fetus
.53 of child Abnormalities of fetus See 617.3 Deformities
Complications
.54 Hemorrhage
.55 Rupture or laceration of genital tract
.56 Retention of placenta
.57 Inversion of uterus
.58 Prolapsus funis
.59 Other complications

618.6 **Puerperal state Physiology**
Management, including care of child
.7 **Pathology of puerperal state Puerperal diseases**
.71 Diseases of lactation: milk fever, mastitis, etc.
.72 Puerperal fever See 614.545 Public helth
.73 Metritis Peritonitis See also 616.38 Cellulitis
.74 Septicemia See also 616.944 Pyemia See also 616.943
.75 Convulsions See 616.845 Eclampsia
.76 Puerperal mania See 132.1 Insanity
.77 Phlebitis Venous thrombosis Phlegmasia dolens
See 616.14 Diseases of veins
.78 Other puerperal affections
.79 Sudden deth after delivery
.8 **Obstetric operations**
.81 Application of lever and forceps
.82 Version
.83 Embryotomy
.84 Dilatation of os and cervix
.85 Symphyseotomy
.86 Cæsarian section
.87 Removal of placenta
.88 Induction of labor Removal of ovum
.89 Intra-uterin injections Antiseptics in midwifery
.9 **Pediatrics Diseases of children**

619 Comparativ medicin Veterinary
.1 **Horses**
.2 **Cattle**
.3 **Sheep, goats**
.4 **Swine**
.5 **Poultry**
.6 **Birds**
.7 **Dogs**
.8 **Cats**
.9 **Other**

620 Engineering

See also 690 Bilding; 721 Architectural construction

SUMMARY

620.1 Applied mechanics Engineering materials
621 **Mechanical engineering**
.1 Steam engineering
.2 Hydraulic engins or motors
.3 Electric engineering
.4 Air and gas engins and other motors
.5 Pneumatic machinery Refrigerating machines
.6 Blowing and pumping engins
.7 Mills Factories Engineering works
.8 Millwork Hoisting and conveying machinery
.9 Machine tools
622 **Mining engineering**
623 **Military and naval engineering**
.8 Naval architecture
624 **Bridges and roofs**
625 **Railroad and road engineering**
626 **Canal engineering**
627 **River, harbor and general hydraulic engineering**
628 **Sanitary engineering**
629 **Other engineering industries**

.01 Statistics
.02 Quantities and cost
.03 Contracts and specifications
.04 Designs and drawings
.05 Executiv
.06 Working and maintenance
.07 Laws and regulations
.08 Patents
.09 Reports

.1 **Applied mechanics Engineering materials**

Class here general works on materials with reference to their fitness in engineering See also 691 Bilding materials

.11 Strength of materials General theory

General works considering various materials. For particular materials see 620.12–.19 Provision is made below for classing tests on 2 different bases: 1) by character of test, 2) by material tested. Class under material rather than under test when the two conflict. See also note under 620.112
For theory or mechanics of structures see 624; for theories of construction of bildings see 690.1

.111 General

This hed is left for specialists wishing to analyze general works or collect clippings and notes too limited for .11 yet not specific enough to be put with a particular test or material. Libraries are unlikely to need any general hed except 620.11

620.112 Tests Factors affecting strength
Kinds of tests. Directions for making various tests, laboratory manuals
See note to 620.11
1 General: influence of temperature, selection of test pieces, etc.
2 Corrosion Wethering Protection against deteriorating influences
3 Elastic limit tests: plasticity, fatigue, deformation
See also 620.11246 Repeated stress
4 Tension, compression, torsion, flexure, shearing
Class here combined tests as well as general works covering these tests
If wisht, subdivide farther as follows:
41 Tensil tests
42 Compression tests
43 Torsion "
44 Flexure (transverse) tests
45 Shearing tests
46 Repeated stress tests
5 Impact Repeated shock tests
Crystallization and formation of cleavage planes
6 Hardness tests
7 Special tests
Varying for different materials
8 Tests on special shapes and forms
82 Plates and structural shapes
Bars, rods, angles, beams: T, bulb, I, and channel beams
83 Colums, bilt colums Tubes, pipes, cylinders
84 Rollers Spheres, solid or hollow Ball bearings
85 Springs
86 Hooks Chains Hoops Rings
87 Rivets Bolts Screws Nails
Riveted joints of plates
88 Wire Wire rope Cables Hawsers
89 Other forms
9 Other tests
.12 Tests of timber See note to 620.11
.13 Stone Cement Concrete
.132 Stone
.135 Cement
.136 Concrete
.137 Reinforced concrete
.139 Other: artificial stone
.14 Brick, tile, etc.
For glass see 666.1 Manufacture of glass, 691.6 Glass as a bilding material. In engineering it is an accessory material not requiring a place under strength tests
.15 Masonry adhesivs
Cement, mortar, plaster of paris, etc. See also bilding materials 691.5 Lime, plaster, cement
.17 Iron and steel
.18 Other metals
.19 Other materials
.195 Mineral: asbestos, mineral wool
.196 Asphalt Tar
.197 Vegetable: paper, hemp, etc.
.198 Animal: hair, hide, bone, etc.
.199
.2 Compends Handbooks Kent, Trautwine
.3 Dictionaries, cyclopedias
.4 Essays
.5 Periodicals
.6 Societies
.7 Study and teaching Instruments
.8 Tables and calculations
.9 History of engineering

621 Mechanical engineering

May be subdivided like 620.0 and by form numbers

.1 Steam engineering

Subdivide like 620 and 620.0, but use 621.101 as below. Other generalities of steam engineering are in 621.11 and 621.18

.101 Applied thermodynamics

Theory and use of steam in steam engin General energy considerations Steam economy

1 General

Expansion, entropy; extension of expansion approaching vacuum (condensers) superheating, cylinder condensation, jacketing, etc. For condensers, superheaters, etc. see 621.197

.11 Mechanism of steam engin Design of engin parts

.111 General

.112 Types of engins: structural

Reciprocating engins in general. Types specified below are all reciprocating, except 1 Primitiv and 9 Other

1 Primitiv
21 Single acting
22 Double acting
3 According to transmission of motion
32 Direct connected
33 Indirect: beam connected
4 According to position
42 Horizontal
44 Vertical
45 Oscillating
46 Inclined
5 According to terminal pressure
52 Condensing
In early period called 'low pressure'
53 Noncondensing
In early period called 'high pressure'
6 According to expansion
61 Single expansion
62 Compound
63 Double expansion: cross compound
64 " " tandem "
65 " " angle "
66 Triple expansion
67 Quadruple expansion
9 Other types
95 Steam turbins
Better clast 621.165
96 Rotary engins
Better clast 621.166

.12 Marine engins

For propulsion see 623.8 Naval architecture

.121 General

See also 621.11 and 621.18

.122 Types of marine engins

1 Primitiv
Inventions of Papin, Perier, Fulton, Stevens, etc
2 Beam and side lever engins
4 Horizontal, inclined, vertical engins
5 Oscillating
8 Launch engins
9 Other special engins

.123 Marine steam turbins

See also 621.165

621.13 Locomotivs

.131 Theory of the locomotiv

1 Adhesion Tractiv force Horsepower

2

3 Tests

.132 Types

Variations modifying tractiv force and speed, and affecting more than 1 class of mechanism. For variations in steam apparatus (oil burning locomotivs, etc.) see 621.133 and 621.134

1 Primitiv forms

2

3 Types according to distribution of wheelbase and load

Exprest by Whyte nomenclature for wheel combinations

5

6 Types according to purpose

62 Freight or goods engins Hog engin

63 Yard, switch or shunting engins

65 Passenger engins

67 Mountain "

68 Mining "

69 Other special locomotivs

8 Peculiar types

Combined 'engin and coach wagon'

9 Types in different countries

Subdivided like 940–999; e.g. English locomotivs 621.132942

.133 Locomotiv boilers Production of steam

Better clast in 621.18423, as boilers of locomotiv type serv many other purposes For boiler management see 621.193

1 Combustion Fuels Petroleum Fuel consumption

See also 621.18357

2 Grate and ashpit Firebox Stays

See also 621.1835

3 Shell and tubes

4 Smokebox and stack Spark arresters

See also 621.1838

5 Exhaust pipe

6 Dome

9 Miscellaneous fittings

Gage cocks, safety valvs, whistles, pumps, injectors, etc.

.134 Engin of the locomotiv

1 Driving mechanism Cylinders, pistons, rods

2 Steam distribution Valvs and valv gears

22 Special types of valvs and valv gear

3

4 Compound principle

Distribution in compound locomotivs

5 Lubrication of locomotiv

9 Other parts of locomotiv: throttle, etc.

.135 Running gear

.136 Tenders

1 Design, weight, brakes, etc.

2 Appliances

3 Taking water without stopping; track tanks; water scoops

139 Miscellaneous parts

Cowcatcher or pilot, hedlight, whistle, bell, sandbox

621.14 Traction engins Road locomotivs

Selfpropelling engins for hauling over roads or ground, or doing other work by locomotion. For railway engins see 621.13. For stationary hauling engins see 621.162

Hauling may be accomplisht either by engins applying their power directly and moving with the load, i.e. locomotiv (621.13) over rails; or traction engins (621.14) over ground or roads; or by engins applying their power indirectly thru cables, etc. and standing in a fixt position either temporarily (621.15) or permanently (621.16)

.141 Theory General

.142

.143 Boilers

Better clast in 621.18423; 621.143 if used is limited to discussion of those suitable to traction engins

.144 Types Traction engins for special uses

.145 Compressing machines Steam rollers

.146 Agricultural: plows, reapers, etc.

.15 Portable engins

Engins that may be moved from place to place, but that remain in a fixt position when working. If selfpropelling, the selfpropulsion is incidental. For fire engins and other pumping engins see 621.64

.151 Theory General

.152 Types, structural, etc.

.153 Boilers

Better clast in 621.18423. If used, limited to discussion of those suitable to portable engins

.154 Portable engins for special purposes

Hoisting, dredging, drilling, etc. See also 621.86 Hoisting and conveying machinery; 621.68 Fire engins; 627.7 Dredges

.156 Agricultural: threshers, etc.

.159 Semistationary engins Various types

.16 Stationary engins

Engins fixt in position; e.g. those running factory machinery, cables, elevators, etc. For management see 621.193. For boilers see 621.18424

.161 Theory and general

.162 Types by use: hauling, dredging, etc.

For pumps see 621.64. For types clast by engin mechanism see 621.164

.163 Stationary boilers

Better clast in 621.18424 with only reference here

.164 Types according to characteristics of engin mechanism or steam distribution

When mechanism and steam distribution conflict, class according to mechanism; e.g. compound releasing-gear engins 621.1644 rather than 621.1647. Each type may be subdivided like 621.11; e.g. vertical throttling engins 621.1642244

1 General
2 Throttling engins
3 Automatic shaft governor engins
4 Releasing gear (Corliss) engins Drop cutoff
5 Single acting engins: Westinghouse or Willans type
6 Simple engins
7 Compound engins, triple expansion, etc.

621.165 Steam turbins

See also 621.123 Marine steam turbins

1 **Theory**

11 Methods of calculation

12 Vanes and buckets

13 Guide vanes and nozles

14 Stresses in rotor or disc

15 Windage

2 **Types**

22 Velocity turbins

23 Pressure turbins

24 Combined velocity and pressure turbins

3 **Construction Details of design**

32 Vanes Buckets

33 Guide vanes Nozles

34 Rotor Discs

35 Valvs, governors, safety devices

36 Thrust balancing

37 Mass "

38 Casing, etc.

39 Bearings, etc.

.166 Rotary engins

.169

.18 Steam generation and transmission

Fuels, furnaces, boilers, piping, power plants

For steam heating see 697.5

.181 General

.182 Fuels Combustion

2 **Fuels for boiler heating**

For fuels in general and fuel analysis see 662.6

22 Solid fuels: coal, lignite, wood, sawdust, peat

23 Liquid fuels: tar, petroleum, alcohol

24 Gaseous fuels: gas from blast furnaces, coke ovens; natural gas

25 Composit fuels: city refuse, coal dust, trash

3 **Fuel consumption**

Practical experiments with a single fuel

4 **Comparativ consumption**

Practical experiments with various fuels

.183 Furnace Draft

1 **General**

Heating and grate surfaces

2 **Types of furnaces**

5 **Furnace parts and construction details**

52 Grates

53 Stationary grates

54 Shaking, dumping and step grates

55 Ashpits Furnace doors

57 Burners for liquid fuel

6 **Mechanical stokers**

62 With traveling grate

63 " rocking "

64 " step grate (Roney grate)

65 " plunger

66 " screw

7 **Other appliances**

77 Pulverized fuel appliances

78 Fuel and ash conveyers Ash removers

See also 621.86 Hoisting and conveying machinery

8 **Chimneys Stacks Draft appliances**

Smoke consumers. For smoke prevention see 621.1941 Firing

82 Natural draft Dampers Uptakes

84 Induced draft

85 Forced draft

621.184 Boilers For boiler plants see 621.19
1 General
13 Boiler economy Tests Feedwater
2 Types
22 Marine
23 Locomotiv, traction, portable
24 Stationary
25 Firetube boilers (tubular)
252 Internally fired
253 Externally "
26 Water tube boilers (tubulous)
27 Flash generators Instantaneous vaporizing boilers
5 Boiler construction Setting Parts
52 Shell Heds Tubesheets Domes Drums
Riveted joints, staying and bracing
53 Tubes Ferules Rings
54 Casing
55 Inspection and cleaning parts: man and hand holes, cleanouts, covers
56 Setting and hanging
57 Foundations: masonry, flues, etc.
7 Boiler accessories
72 Water gages, floaters, gage glasses, warning whistles
73 Pressure gages, manometers, safety valvs
79 Other: air cocks and blowout valvs, zincs, steam collectors
.185 Steam transmission and distribution Piping
1 General; laws of flow, condensation, friction
3 Connections; mains, auxiliary piping
4 Valvs Stop, safety, reducing Pressure regulators
5 Drains and traps Receivers and distributing valvs
6 Covering Insulators
Nonconductors for high, low and medium temperatures
7 Joints and cements Expansion joints
8 Utilization of exhaust steam See also 697.5 Steam heating
.19 Steam boiler and power plants Central stations
See also bilding, 697.5 Steam heating; and Boiler, Boilers in Relativ index
.191 General
.192 Arrangement and housing of apparatus
5 Provision for enlargement
.193 Care and management of steam apparatus
.194 Boilers
1 Firing
2 Feeding
Put here general discussion of feeding and feedwater appliances. For separate description of appliances see 621.197
3 Treatment of feed water: purification, softening
4 Scale prevention Incrustation
7 Inspection Tests Rating
.195 Engins: oiling, packing, adjusting
.196 Duration Wear
5 Corrosion
.197 Steam plant accessories Economic appurtenances
2 Feedwater appliances
Tanks, heaters, economizers, filters, purifiers, regulators
3 Pumps Injectors Return traps
4 Separators
5 Superheaters
6 Condensers and cooling towers
62 Surface condensers
63 Jet condensers
64 Cooling towers
67 Condenser accessories
7 Instruments
Indicators, tachometers, gages, dynamometers, thermometers, pyrometers, lubricators, etc.

621.2 Hydraulic engins or motors

Industrial use of water as motiv power, including machines run by water under pressure produced by accumulators and also constructions and appliances for distributing and regulating supply of water to motors
For hydraulic engineering (dam, breakwater, etc.) see 627; for pumps see 621.6; for reservoirs, aqueducts, etc. see 628.1; for theory of mechanics of liquids see 532

.21 Water wheels

Theory, classification, parts (e.g. paddles, vanes, buckets) water gates, culverts

.22 Overshot or bucket wheels Brest wheels

.221 Overshot wheels of low velocity

.222 Overshot wheels of high velocity

.223 Brest wheels Fairbairn wheels

.224 Sluice gate or Sagebien wheels

.23 Undershot or impulse wheels and floating wheels

.231 Ordinary undershot wheels

.232 Wheels with curvd vanes or buckets Pelton wheel

.233 Vertical impulse wheels

.234 Current suspension wheels

.235 Floating wheels

.24 Turbins

See also 621.165 Steam turbins

.241 General: parts (e.g. distributors, buckets, guide vanes) regulators

.242 Reaction or pressure turbins

.243 Outward flow

Early forms: Barker's mill

.244 Inward flow

.245 Downward flow

.247 Impulse or Girard turbins

.25 Water pressure engins Accumulators

.252 Hydraulic pumps

.253 Piping for high pressure

.254 Accumulators

.26 Hydraulic machinery and appliances

For theory see 532.81

.262 Funicular engins Hydraulic tackle

.263 Hoists Elevators Cranes

Class preferably in 621.86; i.e. purpose outweighs motiv power

.264 Special handling and lifting machinery for steel works, etc.

.266 Presses Forging and stamping machines

.267 Accessories: injection pumps

.269 Mining, tunneling and other hydraulic appliances

Hydraulic giant, Brandt's hydraulic gun

.27 Hydraulic rams

For theory see physics 532.83

.272 Lifting rams Montgolfier ram, Bolle ram, etc.

.273 Pumping rams Leblanc ram

See also 621.64 Pumps

.274 Compressing rams Sommelier ram

.29 Flood gates Dams Mill sluices Hed and tail races

Adaptation to hydraulic motors. For methods and principles of construction see 627.8 Hydraulic engineering

621.3 Electric engineering

001 Statistics; 002 Quantities and cost; 003 Contracts and specifications; 004 Designs and drawings; 005 Executiv; 006 Working and maintenance; 007 Laws and regulations; 008 Patents; 009 Reports
May also be subdivided for form with 0 like 620.1–.9

SUMMARY

621.31–7 **Hevy current engineering**
.31 Generation of electricity
.311 General
.312 Central stations
.313 Dynamoelectric machinery
.314 Stationary induction apparatus
.315 Electrostatic apparatus
.316 Accessories and parts
.317 Control and central station wiring
.319 Transmiss on
.32 Electric lighting
.33 Electric traction
.35 Voltaic cells and batteries
.36
.37 Electric mesurements and testing
.38 **Weak current engineering**
.382 Telegrafy
.384 Wireless communication
.385 Telefony
.39 Other applications of electricity

621.31–.37 Hevy current engineering

.31 Generation of electricity Dynamoelectric machinery Transformers Transmission

.311 General

.312 Central stations: metropolitan, rural

Divided by 001–009 like 621.3 with the following additions to 006:
006 Working and maintenance
4 Operation and running
5 Regulation and control
8 Testing
9 Repairs and renewal
Administrativ point of view; a specific repair belongs with the part repaird

13 **General central stations**
Combined power, traction, light, etc. stations
132 Steam driven
133 Gas "
134 Hydraulic
135 Composit
2 **Stations for lighting only**
Divided by source of power like 621.31213
3 **Stations for traction only**
Divided like 621.31213
5 **Storage battery pressure regulating equipment**
6 Substations
63 Transformer substations
64 Converter "
65 Accumulator "

621.313 Dynamoelectric machinery
1 **General; construction, installation**
2 **Direct or continuous current machinery**
21 Theory
22 General types
23 Continuous-current generators
2 Series wound 3 Shunt wound 4 Compound wound
24 Continuous current motors
Subdivided like 621.31323 above
245 Constant speed motors
246 Multispeed motors
247 Adjustable speed motors
248 Varying " " (railway motors)
25 Continuous-current converters
26 Dynamotors and motordynamos
27 Compensators or balancers
28 Continuous-current boosters
29 Other
291 Acyclic or homopolar machines
3 **Alternating-current machinery**
32 General types of alternating current machinery
321 Single phase machinery
322 2 " "
323 3 " "
325 Other polyphase machinery
4 Synchronous machinery
41 Theory
42 General types
43 Alternating-current generators
44 Synchronous motors
5 Aiternating-current converters
51 Theory
52 General types Description
53 Synchronous converters
54 Phase converters
55 Frequency converters
56 Double-current generator.
57 Motor converters
6 Asynchronous machines
61 Theory
62
63 Induction generators
64 " motors
65 Series alternating-current motors
66 Repulsion motors
67 Frequency converters
68 Phase converters
7 Rectifying apparatus
72 Mechanical rectifiers
73 Arc "
74 Electrolytic "

621.314 Stationary induction apparatus
- 1 **Theory**
- 2 **General types and description**
- 3 **Transformers**
- 31
- 32 Constant-current transformers
- 33 Constant-potential transformers
- 34 Phase-changing transformers
- 38 Meter transformers
- 4 Auto transformers
- 5 **Potential regulators**
- 51 Compensator potential regulators
- 52 Induction " "
- 53 Magneto " "
- 6 **Reactors or choke coils**
- 7 **Induction coils**

.315 Electrostatic apparatus: condensers

.316 Details of electric machinery . Parts

Armatures, field cores, etc.

.317 Central station wiring Control devices and switchboards

For meters and mesuring instruments see 621.37

- 1 **General**
- 2 **Panels**
- 22 Generator panels
- 23 Motor "
- 24 Feeder "
- 25 Transformer "
- 26 Converter "
- 27 Lighting "
- 28 Accumulator "
- 3 **Switches**
- 31 General
- 32 Knife switches
- 33 Dial "
- 34 Plug "
- 35 Oil "
- 36 Circuit breakers
- 4 **Rheostats and control devices**
- 5 **Signal devices**
- 6
- 7 **Barriers and compartments**
- 8 **Station protectiv devices (fuzes, lightning arresters, etc.)**

.318 Manufacturing processes

Processes peculiar to electric machinery and apparatus: e.g. insulating, varnishing, baking, armature stamps and dies

621.319 Transmission of electric energy

Limited to transmission of current from control to substations (stepdown transformers) and to questions common to all lines. For transmission systems for a special application see subject; e.g. traction lines 621 332

1 **General**

12 **Systems**

122 Direct or continuous current systems

Including 2 wire systems

123 3 wire (or Edison) and other

129 Other direct current systems

13 Alternating current systems

131 Single phase systems

132 2 phase (or quarter phase) systems

3 3 wire system

4 4 " "

133 3 phase systems

2 Delta or mesh connections

3 Star or Y connections

139 Other polyphase systems

15 Composit systems

Direct and alternating current combined

2 **Lines and conductors**

For local wiring see specific application; e.g. electric light wiring 621.328

21 General

Interaction of parallel lines, heat losses. For traction lines see 621.332; for interior wiring for electric light see 621.328, for telegraf see 621.382, for telefones see 621.385-7

22 Overhed or aerial lines

222 Systems

223 Poles: foundations, guys, etc.

224 Cross arms Pins

225 Towers

23 Underground lines

232 Systems

233 Condits

234 Manholes

3 Cables and conductors Insulating materials

32 Uninsulated conductors Bare wire

33 Insulated " Wire and cable

34 Cables

37 Insulating materials

Leakage Influence of chemic composition

4 Insulators

8 **Protectiv devices**

82 Line lightning arresters

For protection of central stations see 621.3178

621.32 Electric lighting Illumination

Class here works limited to electric lighting, but more general than any of the subheds below. This number is for matter differentiating lighting from other branches of electric engineering, but not for subjects which lighting has in common with other branches. For generation and control of electricity (including central stations) see 621.31, for transmission and wiring see 621.319, for mesuring see 621.37

For theory of electric light see 537.83 Electric lighting

.321 General

.325 Arc lighting

Including systems and lamps

1 General: efficiency, cost, etc.

2 **Constant-current or series systems**

3 **Constant potential or parallel systems**

4-5 **Arc lighting according to**

4 Type of arc

If emphasis is on form of current, class under 621.3255 If there is conflict, prefer 621.3254

42 Open arc

421

422 " " direct current

423 " " alternating current

43 Inclosed arc

431

432 " " direct current

433 " " alternating current

5 Form of current

If emphasis is on type of arc, class in 621.3254

52 Direct current

521

522 " " open arc

523 " " inclosed arc

53 Alternating current

531

532 " " open arc

533 " " inclosed arc

6 **Composit electrode arcs**

Flaming arcs. Carbid, Bremer magnetite, titanium oxid arcs

7 **Details Accessories**

Arc light carbons

8 **Applications**

For welding see physics 537.85, and metallurgy 669

" therapeutic applications see 615.84 and 621.3915

82 Searchlights

.326 Incandescent lighting

Including lamps and systems

1 General: efficiency, cost, etc.

2 **Systems (Edison 3 wire system)**

3 **Carbon filament lamps**

31 Metalized filaments

32 Other carbon filaments

4 **Metal filament lamps**

41 Platinum filaments

42 Tantalum "

43 Tungsten "

44 Osmium "

45 Other metal filaments

5 **Glowers of other materials**

53 Nernst lamps

621.327 Incandescent vapor lighting and lamps Other electric lighting
3 Vacuum or incandescent vapor lamps
4 Mercury vapor lamps
For mercury rectifiers see 621.3137
5 Carbon vapor lamps Moore lamp
7 Vacuum lamps for special radiations: Crookes tubes, etc.
.328 Apparatus at servis end of line
1 Underwriters requirements
National electric code
2 House wiring
3 Panels
4 Fuzes
5 Insulators, etc.
6 Meters
See also 621.37 Electric mesurements and testing
7 Switches
8
9 Other apparatus
.33 Electric traction
See 625 for construction of route; 656 for business management maintenance; 654 for communication and signals; 699 for car bilding; 725 3 for architecture of stations, terminals, carsheds, shops, round houses, etc. This number is concernd properly only with the apparatus and appliances for transmission and use of the current after it enters the line.
.331 General
2 Systems
4 Systems according to current
42 Direct current
43 Alternating current
431 Single-phase
432 2 phase
433 3 phase
439 Others
5 Systems according to delivery of power
52 Trolley systems
53 Overhed trolley
54 Underground trolley
56 Third rail systems
562 Unprotected third rail
564 Protected " "
.332 The line (including track)
1 General
Interaction of parallel lines, heat losses, etc. are better clast in 621.31921
17 Feeders and return systems
2 Overhed wire Trolley lines
23 Catenary suspension
25 Trackless trolley
3 Third rail
5 Underground conductor or contact
6
7 Accessories
9 Other types of line
.333 Track
1 General
16 Deteriorating influences
167 Electrolysis Leakage
2 Rails
4 Bonding

621.334 Rolling stock

For nonelectric rolling stock see 656 for administration, 699 for construction

2 Locomotivs

3 Motor tramcars

4 Accessories and parts Control systems

Motor, controller, current collecting devices, etc. Multiple unit control

5 Locomotiv and car wiring

7 Running gear and other nonelectric details

.35 Chemic electricity Voltaic cells and generators

Primary and secondary

.351 General

E.m.f, counter e.m.f, polarization, weight, capacity; efficiency, life, crumbling, deterioration and detrimental influences; residues

.352 Parts and accessories of cells and accumulators

1 Containers: jars, trofs, vats, etc.

2 Electrodes and their accessories: positiv and negativ plates or elements

Grids, supporting frames, insulating rods, etc.

3 Diaframs and partitions

4 Electrolytes Depolarizers Packing

5 Circulators Condits and piping

6 Connections Terminals Binding posts

7 Regulating apparatus

8

9 Other apparatus

.353 Primary cells

See also 537.5 Voltaic electricity; 541.37 Electrochemistry

1 General

3 Single fluid

4 Double " Hevy current cells

5 Open circuit or nondepolarized

6 Closed circuit or depolarized

7 Accessories and parts

8 Classification according to use or operating methods

.354 Accumulators or storage batteries

Secondary cells and batteries

1 General

18 Care and handling of accumulators

7 Accessories and parts

.355 Led accumulators

1 General

18 Care and handling

2 Naturally formd: Planté type

3 Artificially formd: Faure type

4 Combined Planté-Faure types

5 Other led accumulators

52 Complex oxid types

55 Led element accumulators

56 Copper led "

57 Zinc " "

58 Cadmium " "

.356 Alkalin accumulators

.357 Other types of accumulators

Thallium, gas, etc.

.358 Other classifications of accumulators

According to use or operation

.359 Other topics pertaining to chemic generation of electricity

.36 Vacant for future use; perhaps for direct transformation of heat or fuel energy

621.37 Electric mesurements, meters and testing
.371 General
Tariffs may be clast here, tho better put in 654
.372 Standards Calibration of instruments
.373 Meters General types
Recording meters. See also special meters, 621.384
Prepayment meters. See also special meters, e.g. 621.3745 Watt hour
.374 Special meters and mesurements
2 **Resistance meters: inductance, capacity**
Wheatstone bridges, ohmmeters, resistance boxes
3 **Potential meters: voltage**
Voltmeters, electrometers, standard cells
4 **Intensity meters: current**
Galvanometers, ammeters, coulometers, Ampère-hour meters
5 **Quantity or work meters Watt-hour meters**
6 **Power meters Watt meters**
7 **Frequency meters Oscillografs**
9 **Other meters and mesurements**
91 Phase meters Power-factor meters Synchronizers
.379 Other electric mesuring instruments
For other than electric mesurements; e.g. electric thermometers

Weak current engineering

.38 Electric communication: telegrafy, telefony, wireless
Libraries have too much material clast in 654 to make it practicable to abolish that number for construction and instruments; but for electric engineers and new libraries who prefer it, the detaild technical classification is developt here.
For overhed or underground lines see 621.3192
.381 General
.382 Telegrafy Systems
When systems and instruments conflict, classify according to systems.
For business administration, see 654; for wireless see 621.384
15 **Codes**
152 Morse
153 Continental
154 Phillips (press code)
2 **A B C, dial, needle telegraf, etc.**
21 Early experimental forms
22 A B C
23 Dial
24 Needle
25 Pointer
29 Other
3 **Hand operated code telegrafy**
31 Simplex
311 Open circuit
312 Closed circuit
32 Duplex
321 Differential duplex systems
322 Stearns duplex
323 Polar duplex
325 Bridge duplex systems

621.382 34 Quadruplex
35 Multiplex
36 Synchronous multiplex: Delany
37 Harmonic " Gray
4 **Automatic code telegrafy High speed systems**
41 Electrochemic automatic: Bain, Morse
44 Ink recording or embossing
45 Wheatstone
46 Pollak-Virag
47 Telepost (Delany)
5 **Printing telegraf**
51 Tape printing: stock tickers
53 Other tape printing: Hughes
55 Page printing: Buckingham, Murray, Baudot
57 Multiple page printing: Rowland
6 **Writing telegrafy**
Transmitting and recording characters while being written; Gray's telautograf
7 **Facsimile telegrafy**
Sometimes cald fototelegrafy
8 **Submarine cable telegrafy**
9 **Other wire systems**
94 Induction telegrafy; from moving trains, etc.
95 Combined telegrafy and telefony Fantom circuits

.383 Telegraf instruments
1 **Transmitting: keys, senders, etc.**
2 **Intermediate and accessory: relays, repeaters, switches**
21 Relays
22 Differential relays
23 Polarized "
24 Repeaters, for simplex; Milliken, Ghegan, Toye, etc.
25 " " duplex or quadruplex
26 'Half' repeaters
27 Switches and distributing apparatus
28 Protectiv apparatus
29 Miscellaneous telegraf accessories
3 **Receiving instruments**
Sounders, recorders, etc. Subdivided, if wisht, like 621.3824-8

.384 Wireless electric communication: telegrafy, telefony
1 **General**
2 **Wireless telegrafy Systems**
21 Spark telegrafy; by free oscillations
25 Continuous-train telegrafy; by forced oscillations
3 Instruments
31 Sending apparatus
35 Antennae, aerials, and their substitutes
36 Receiving instruments and apparatus
4 Applications, adaptations, specific installations
5 **Wireless telefony systems**
6 Apparatus
61 Sending apparatus
65 Aerials, etc.
66 Receiving apparatus
7 Applications, adaptations, specific installations
8 Vacant for possible development of visual transmission by wireless

621.385 Telefony Systems

See also 621.3845 Wireless telefony

1 **General**

2 **Party line**

When 2 and 3 or 2 and 4 conflict, 3 or 4 prevails

22 Series

23 Bridging

24 Selectiv

3 **Intercommunicating systems**

Without central switchboard

32 Common return systems; selectiv at each station

34 Radial common return systems; selectiv at one station only

36 2-wire systems; separate returns

4 **Central switchboard systems**

Manual; for automatic see 621.3857

42 Local battery or magneto systems

46 Common battery or central energy systems

5 Multiple switchboard systems

6 Trunking Transfer systems

61 Trunking

63 Transfer system

7 **Semiautomatic and automatic systems**

72 Semiautomatic

75 Automatic

76 Strowger system (Automatic Electric Co)

8 **Private exchanges**

.386 Telefone instruments

Terminal; subscriber's instruments

2 Transmitters

3 Receivers

4 Induction coils

5 Condensers

6 Hook or other switches

7 Call receiving apparatus

8 Call sending "

9 Miscellaneous accessories

92 Coin collecting devices

94 Protectiv devices

96 Current supply (local batteries)

.387 Central switchboards and other station equipment

1 **General**

2 **Switchboards, manual**

22 Local battery or magneto

26 Common battery

3 Multiple switchboards

35 Divided multiple

4 Trunks Transfer boards

41 Trunks and trunking

43 A boards

45 B boards

47 Multiple plug transfer

5 **Switchboard parts and accessories**

621.387 6 **Power plant equipment and accessories**
62 Accumulators
63 Charging generators
64 Ringing "
7 **Automatic and semiautomatic switchboards**
Including accessories. Subdivided like 621.3857
8 **Telefone transmission**
For transmission common to other branches of electricity see 621.319
Put here only that peculiar to telefony
81
82 Long distance
83 Transposition
84 Telefone cable construction
85 Loading
86 Pupin coils
9 **Other central station accessories**
92 Distributing frames and racks; main
93 " " " " intermediate or secondary
94 Protectiv devices
See also 621.3178 and 621.31982
96 Meters and counters
See also 621.3286 Electric light meters
.388 Vacant for visual transmission by wire
.389 Other electric communication
.39 Other applications of electricity
Subdivide like 600; e.g. electricity applied to mining 621.3922, applied to medicin 621.3915. This place is provided for specialists who prefer to mass all their material under 621.3. Libraries should class rather by purpose of the application; e.g. books on electric heating will be more useful in a general library under 697.7 with the question of heating than in 621.3997 with a general assortment of unrelated applications. References here show a library's resources on special applications
.4 **Air and gas engins, etc.**
.41 Hot air engins
.42 Comprest or rarefied air or gas engins
.43 Internal combustion engins
.431 General theory of internal combustion engins
.432 Cycles and systems of operation
1 4-cycle systems Otto cycle
2 2-cycle systems
3 Other and modified systems
.433 Gas turbins
.434 Internal combustion engins clast by fuels
1 Engins for gaseous fuels
11 Engins for natural gas
12 " " illuminating gas
13 " " blast furnace gas
14 " " producer gas. For gas producers see 665.8
15 Engins for acetylene gas
2 Engins for liquid fuels
21 Engins for gasolene
22 " " kerosene
23 " " other petroleum oils
24 " " alcohol
3 Engins for solid fuels

621.436 Special engins or motors
Those not limited to a single system or fuel; e.g. description or discussion of Diesel motor. Arrange alfabetically by name of machine
.437 Parts and accessories of internal combustion engins
.438 Special applications
3 Selfpropeld machinery
Engins for farm machinery, fire engins, roadrollers, etc. See also special machines
4 Selfpropeld vehicles
Class here only adaptation and application of internal combustion engins to motor vehicles. See also 629.2 for motor vehicles
5 Motors for small boats
6 " " large vessels
7 Airship motors
For airships see 629.15
.44 Binary vapor engins
.45 Windmills
.46 Animal motors Tredmills
.47 Solar engins
.49 Power plants and central stations
.5 Pneumatic machinery Mechanical refrigeration
.51 Air compressors
.515 Dry air compressors
.517 Wet " "
.52
.53 Comprest air transmission and distribution
.532 Details of transmission Piping, mains, gages, etc. Designs of transmission
.54 Applications for comprest air
For pneumatic hoists, etc. see 621.86
.541 Comprest air motors
.542 Pneumatic tools: drills, hammers, etc.
See also 821.9 Machine tools
.543
.544 Special applications in railway servis
.545 Comprest air locomotivs
.546 Pumping by comprest air
.549 Other applications
Pneumatic cleaning, sandblasts, tubes
.55 Rarefied air and vacuum appliances
Vacuum cleaners: general discussion and description. See also domestic economy 648.52 Methods of sweeping and dusting
.56 Refrigeration
For cold storage see 664.8
.564 Refrigerating fluids
.565 Refrigerating systems and plants
1 Brine system
2 Direct expansion system
.566 Design Calculation of piping, refrigerating surface. etc.

621.57 Refrigerating machines
.572 Ammonia compression machines
.573 Ammonia absorption "
.574 Carbonic acid machines
.575 Air machines, vacuum machines, etc.
.579 Other
.58 Icemaking
.581 Can system
.582 Plate system
.6 Blowing and pumping engins
.61 Piston blowers Blast furnace blowing engins, etc.
.62 Rotary blowers
.63 Centrifugal blowers
Including fans: exhaust and plenum
.64 Power pumps and pumping engins
Regardless of motiv power
.641 General theory Design and construction
.642 Tests of pumps and pumping engins
.65 Direct acting pumps
.652 Piston pumps
.654 Plunger "
.66 Rotary pumps
.67 Centrifugal pumps
.68 Fire engins
.69 Other blowing and pumping devices
Steam jets, ejectors, etc.

621.7 Mills Factories Engineering works

Engineering questions affecting establishment and conduct of manufacturing plants. Arrangement of shops and departments (including storehouses, offises, etc.) with reference to sequence of processes, economy of power and handling; also equipment and internal arrangement of each shop. See also

651 Offis methods and equipment
657 Accounting, costkeeping, estimates
658 Business methods
659 Advertizing, etc.
670 Manufactures: articles, and methods and machines for making them
725.4 Architecture of factories

In 621.7 is considerd the disposition of the material for which the architect constructs the shell, the assembling into a unit of elements essential to a great factory. A works manager may wish to keep *all* his notes on his own plant here, including machines and processes for his special product, but a general library should class manufactured articles, with the special means and methods of producing them, under the number for the article; e.g. a library would class material on spindles and looms in 677, but the manager of a woolen mill might prefer to class them in 621.7983 as an integral part of his plant, tho classification under the regular number will usually prove more satisfactory in all cases

.701 Location

With reference to supply of raw material, market for finisht product, shipping facilities, relativ cost of freight on material or product; e.g. the much greater cost of carrying a bulky car than an equal weight of compact raw material as a factor in locating an automobile factory

.704 Organization and administration

Managers and engineers, professional staff; artizans and laborers regarded as machine accessories; hours and shifts considerd solely with reference to effect on output. For wages and other economic aspects see 331 Capital, labor and wages; for factory legislation (protection and welfare of employees) see 338.9. For organization of clerical force, see 651

.705 Mechanics and laborers

.71 Drafting room

.711 General
.712 Arrangement
.713 Equipment
.714 Materials and supplies
.715 Methods and processes
.719 Other

.72 Woodworking shop Pattern shop

May be subdivided like 621.71

.73 Forge shop

May be subdivided like 621.71

.74 Foundry

May be subdivided like 621.71

.75 Machine shop

May be subdivided like 621.71

.76 Blast furnace

May be subdivided like 621.71

.77 Rolling and drawing mils

May be subdivided like 621.71

.78

621.79 Other shops and departments
.792 Boiler and sheet metal shops
Stamping and punching May be subdivided like 621.71
.794 Special process shops
Galvanizing, plating, etc. May be subdivided like 621.71
.795 Finishing shop
Painting, glazing, grinding, buffing, testing. May be subdivided like 621.71
.796 Storehouses
2 Materials and supplies
4 Explosivs
6 Products Shipping department
.798 Department turning out main product
Processes and machines Varying for different kinds of factories and provided only for factory use, see note to 621.7. Libraries should leave vacant May be subdivided like 621.71
.799 Other minor shops and departments

.8 Principles of mechanism Power transmission Hoisting and conveying machinery
.81 General Principles of mechanism Machine design
.82 Journals, shafting, etc.
.821 Journals
.822 Bearings: ball, roller, etc. Hangers Bearing metals
.823 Shafting
.8235 Flexible shafting
.825 Couplings and clutches Universal joints
Friction clutches
.826 Shaft brakes
.83 Tootht gears and cams
.831 General: theory, forms of teeth, tooth curvs
.832 Efficiency of gears Tests Friction of gears
.833 Design of gears
1 Spur gears
2 Bevel and skew bevel gears
3 Worm and spiral gears
Screws for transmitting motion, endless screws
.834 Construction: gear cutting and casting
.835 Chain gearing
.837 Ratchet gearing: pawls, dogs
.838 Cams
.84 Valv motions and gears
General, trade catalogs; for special valvs see subject
.846 Valvs and cocks
.85 Machinery and mill gearing
Class here transmission by flexible connections
.852 Belt connection
.853 Hemp rope transmission
.854 Wire rope "
.856 Pulleys Sheaves
.858 Friction gearing

621.86 Hoisting and conveying machinery

For dredges see hydraulic engineering, 627.7 Dredging, dredging machinery See also 621.26 Hydraulic machinery: 621.18378 Fuel and ash conveyers

.861

.862 Hoists: blocks and tackle

.863 Mechanical tackle Chain blocks

.864 Winches Capstans Windlasses

.865 Power shovels

.867 Conveyers Telferage

4 Belt or bucket conveyers

5 Belt: moving sidewalks

6 Bucket: escalators, moving stairs

9 Other conveyers: cash carriers, etc.

.868 Telfers

4 Selfpropelling

.869 Other: jacks, etc.

.87 Cranes and elevators

.871

.872 Derricks

.873 Revolving cranes

621.873–5 may be subdivided like 621.8771–5 by kind of power if wisht; e.g. 3 Steam 4 Hydraulic 5 Electric

.874 Traveling cranes

.875 Locomotiv cranes

.876

.877 Elevators

1 Handpower

2 Belt driven

3 Steam, gasoline

4 Hydraulic

5 Electric

6

7 For special purposes

71 Passenger elevators

72 Freight "

For mines see 622.17–.68

73

74 Dum waiters Book lifts

Lifts for small objects

8 Apparatus

81 Car and guides

82 Power transmitting devices

83 Counterbalancing weights and guides

84 Control devices

85 Safety "

86 Accessories

621.88 Fastenings
.882 Screws and bolts Systems of screw threds
For screws for transmitting motion see 621.8333
.883 Keys and cotters
.884 Rivets Design of riveted joints
.89 Friction Lubrication Lubricants
.9 Machine tools
Manipulation Discussion and catalogs of different kinds and makes of metalworking tools. For manufacture of various tools, see 672. For woodworking tools, see 674 Wood manufactures; also 684 Cabinet making, 694 Carpentry, 736 Wood carving
.91 Planing and milling machines
.912 Metal planers, shapers, and slotters
.92 Grinding and filing Abrasivs
.922 Cylinder and surface grinding machines
Lapping machines
.923 Emery wheels
.924 Filing machines
.93 Cutting and sawing
.931
.932 Metal sawing and cutting machinery
.94 Turning
.941
.942 Metal turning lathes
.943
.944 Pipethreding machines
.945 Boring mills
.95 Perforating machinery
.951
.952 Drilling machinery Drills
.953
.954 Reamers
.955 Tapping machines
.96 Punching and shearing machinery
.97 Hammers Riveting tools
.98 Bending, straightening, and shaping
.981
.982 Bending machinery
.983 Straightening machinery
.984 Flanging and die press machinery

622 Mining engineering. See also 338.2 Mining products; 332.41 Coinage metals

May be subdivided like 620 and 620.0; e. g. Societies, 622.06; Reports, 622.009

.1 Exploration and Prospecting

.11 Theory Applied Geology, etc.

.12 Prospecting. Practical Methods.
Including Divining Rods.

.13 Mineral Surveys.

.14 Mine Surveying.

.15 Magnetic Surveys.

.16 Theory of Faults. See 551.87 and 553.19

.17

.18

.19 Mining Prospectuses. See 553

.2 Practical Mining.

.21 Excavation.

.22 Quarrying.

.23 Drilling and Blasting.

.24 Deep Boring.

.25 Shaft Sinking.

.26 Tunneling and Drifting.

.27 Stoping.

.28 Timbering. Masonry lining See also 622.56

.3 Working of Mines. Exploitation.

.31 Open Workings.

.32 Hydraulic Mining and Sluicing.

.33 Coal Mining. See 553.2.

.34 Metal Mining. See 553.3 and .4.

.35 Working Thick Deposits.

.36 Salt Mining. See 553.63.

622.4 Ventilation and lighting of mines
.41 Theory Gases met with, etc.
.42 Natural ventilation
.43 Furnaces Steam jets, etc.
.44 Fans See 621.62
.45 Airways Stoppings Regulators
.46 Mesurement of ventilation
.47 Lighting Safety lamps, etc.
.5 Drainage
.51 Theory of infiltration of water
.52 Natural drainage
.53 Cornish pumps See 621.6
.54 Steam pumps See 621.64
.55 Hoisting of water
.56 Dams and watertight linings See also 622.28, Timbering
.57 Acid waters
.6 Extraction Hoisting and transportation
.61 Handling mineral in working place
.62 Underground roads
.63 Mine cars Trams, etc.
.64 Gravity roads and planes
.65 Tramming and animal haulage See 625.7
.66 Mechanical haulage
.67 Hoisting engins Drums Ropes Whims
.68 Cages Skips Buckets
.69 Surface transportation
Including mineral roads, wire ropeways, transhipment, loading and unloading, etc.
.7 Mechanical preparation Ore dressing
.71 Theory Preliminary operations
.72 Hand dressing
.73 Crushing Stamping engin
.74 Screening
.75 Jigging Ore concentrators
.76 Slime treatment
.77 Magnetic separation
.78 Coal washing
.79 Dressing works
.8 Dangers and accidents See also 613.6 Hygiene; 331.82 Laboring classes
.81 Explosions of firedamp
.82 Mine fires
.83 Crushing and fall of ground
.84 Flooding of mines
.85 Accidents to miners
.86 Rescue and relief
.87
.88
.89

623 Military and naval engineering

For military and naval science, maneuvers, strategy and tactics see 355-359

SUMMARY

623.1 Fortifications: field and permanent
.2 Siege operations: mines, etc.
.3 Defensiv operations
.4 Ordnance and projectils
.5 Gunnery
.6 Military roads and bridges
.7 Military signals: telegraf, ballooning, etc.
.8 Naval architecture
.9 Armor Torpedoes, etc.

.1 Fortifications: field and permanent

.11 Principles of fortification

.111 Profiles

.112 Plans

.113

.114 Defilading

.115

.116 Details: bastions, curtains, glacis, etc.

.117 Accessory defenses

Flanking defenses; outworks, palisades: moats, obstacles etc

.12 Construction of permanent fortifications

.122 Earthwork

.123 Masonry: concrete

.124 Armor

.13 Systems of forts

.131 Central fort

.132 Citadel

.133 Fortified positions

.134 Barrier forts

.15 Temporary fortifications Field works

.19 Special forts

Divided like 930-999; e.g. history of the fortress of Gibraltar 623.19468

.2 Siege operations Mines

Class here only engineering operations. For conduct of sieges, see 355.44

.21 Siege works

Investment, establishing camps

.22 Circumvallation and countervallation

.23 Establishing parallels and advancing batteries

.24 Zigzags Saps

Trenching, blindage, gabionades

.25 Breaching batteries Breaches

For assaults see 355.44

.26 Land mines and torpedoes

See also 623.9 Submarine torpedoes

.27 Other means of demolition

Firing and exploding devices

623.3 Defensiv operations

For maneuvers see 355.44

.34 Defense of trenches

.35 " breaches

.36 Countermines

.4 Firearms, ordnance and projectils Arsenals

Including ammunition in general and fireworks. For manufacture of explosivs see 662. For general history of war customs and wepons, and of ancient engins of war see 399. Class here wepons for gunpowder and similar explosiv.

.41 Artillery material

Clast according to use

.412 Field artillery material

.413 Mountain " "

.414 Landing " "

.415 Siege " "

.416 Fortress " "

Including large guns (fortress, coast and naval) considerd together

.417 Coast artillery material

.418 Naval " "

.42 Guns

.421 Guns according to form and construction

See also 623.5 Gunnery; 623.47 Gunmaking

1 Early forms: bombards, culverins, etc.

For blunderbuses and other early forms of small arms see 623.441

2 Guns proper or long cannon

3 Short cannon or howitzers (shell guns)

4 Mortars

5 Guns made in a single piece

6 Bilt up guns

61 Hoopt guns

62 Jacketed guns

63 Hoopt and jacketed guns

64 Wirewound guns

.422 Guns according to mode of loading and operating

1 Muzzleloading guns

2 Breechloading "

3 Rapidfire guns

4 Machine "

42 Multiple tube guns

Gatling guns, Hotchkiss revolving cannon

43 Single tube guns

5 Automatic and semiautomatic guns

Hotchkiss, Maxim, Colt

.423 Form and interior arrangement of guns

1 General plan

2 Outside form

3 Hooping

4 Jacketing

5 Bore

6 Rifling

7 Chamber

623.424 Breech and firing mechanisms
1 Breech closing apparatus
11 Block
12 Wedge
13 Screw
2 Firing apparatus Vent Vent bushing Firing pin
3 Safety apparatus: gas checks, etc.
.425 Sighting attachments
For detacht apparatus, see 623.462
1 Backsight, sliding notch, eyehole, etc.
2 Sight Foresight
.43 Mounts and carriages
Including their parts and accessories
.431 Field and mountain mounts and carriages
1 Field mounts
2 Mountain mounts
3 Machine gun mounts
4 Caissons and limbers
5 Ammunition chests
6 Battery carriages (i. e. tenders)
.432 Siege mounts and carriages
1 Siege gun mounts
2 Howitzer mounts
3 Mortar mounts
4 Siege carriages (i. e. tenders)
.433 Fortress, coast and naval mounts
For accessories see 623.435
1 Casemate mounts
Pedestal and pivot mounts
2 Barbet mounts
3 Disappearing mounts
4 Turret mounts
.434 Naval mounts
For discussion limited to naval use
.435 Mechanism of mounts
Platforms, circular pintle block and pivots
1 Checks and transoms
2 Chassis and crosshed slides
3 Mechanism for maneuvering and going into battery: wheels trucks, rollers
4 Sighting apparatus
5 Recoilchecking mechanism Breeching Vent plug
6 Recoil mechanism Brakes
61 Automatic friction recoil checks
62 Screw brakes
63 Hydraulic brakes
64 Pneumatic "
65 Trail spades
7 Reactionary mechanism
Devices for restoring guns to firing position after recoil
71 Spring recuperators
72 Pneumatic recuperators

623.436 Maneuvering appliances
- 1 Levers, handspikes, roller handspikes
- 2 Breeching tackle
- 3 Shot barrows, shell barrows
- 4 Projectil hoists

See also 621.86 Hoisting and conveying machinery

.44 Small arms

Mechanism and military efficiency
For small arms practis see 355.5
" manufacture of small arms see 683
" wepons prior to firearms see 399

.441 Primitiv forms of firearms

Blunderbus, harquebus, etc.

.442 Rifles, muskets, carbines, musketoons

Including also bayonet as part of the complete wepon
- 1 Single shot, muzzleloading
- 2 " " breechloading
- 3 Repeating rifles
  - 31 With magazine
  - 32 " loader
- 4 Automatic guns

.443 Pistols and revolvers
- 1 Single shot pistols
- 3 Automatic pistols
- 4 Revolvers

.444 Side arms Cutting arms

For halberds, axes, dirks, poniards, and other antiquated forms see 399
- 2 Swords
- 3 Bayonets: saber bayonets, sword bayonets
- 4 Lances

.45 Ammunition and fireworks

Kinds and relativ efficiency for military purposes. For details of manufacture of powder and explosivs see 662

.451 Artillery projectils

Including exploder as part of projectil
- 1 Spheric projectils
  - 11 Solid shot
  - 12 Bombs
  - 13 Shells: early shrapnel
  - 14 Grenades
- 2 Elongated projectils
  - 22 Case shot: canister and grape
  - 25 Elongated bullets
  - 3 Shells
    - 4 Modern shrapnel
    - 5 Segment and ring shell
    - 6 Incendiary shells

      For illuminating shells see 623.45446
    - 7 Shells with high explosiv Torpedo shells
  - 8 Armorpiercing shells and other projectils

623.452 Powders Explosivs
See also 662.2 Powder manufacture
1 Gunpowder
2 Other powders
9 Other explosivs
.453 Fixt ammunition
.454 Exploding devices and fireworks
See also 662 Pyrotechnics, explosivs, matches, etc.
1 Matches and fuzes
11 Slow matches and fuzes
12 Quick matches and fuzes
2 Exploders
21 Percussion caps
22 Primers
23 Projectil fuzes
24 " detonators
29 Other exploders, etc.
3 Fireworks, bombs, etc.
For torpedoes see 623.9
31 Incendiary devices
32 War rockets
33
34 Petards
35 Camouflets
4 Illuminating fireworks
41 Links
42 Torches
43
44 Signal rockets
45
46 Illuminating projectils Star shells
.455 Small arms ammunition
For powder see 623.452
1 Spheric bullets
2 Elongated bullets Minie ball
3 Cartridges Fixt ammunition
32 Jacketed bullets
35 Prohibited bullets: dumdum or expanding; explosiv
Those prohibited by Hague conference
.46 Artillery accessories
.461 Battery tools
.462 Instruments
1 Sighting apparatus: rear sight, quadrants, elevating arcs, range scales
5 Range finders
463 Implements: rammers, swabs, levers
47 Arsenals
Subdivide like 621.7

623.48 Preservation and care of munitions
Reception, tests, accidents
.481 Preservation
1 Magazines
2 Guns
3 Carriages
4 Small arms
.482 Reception Tests Buying
1 Inspection
2 Acceptance tests
3 Function of commissions Experimentation
.483 Accidents Explosions; preventiv mesures
1 Accidents to persons
2 " material
21 Accidents to arms
22 " in transit
Damage to boats, cars, etc.
23 Accidents to structures
.5 **Gunnery**
Theoretic and experimental; efficiency of artillery system as a whole. See also 'Projectils' in Relativ index following Tables
.51 Theory and strength of guns
.52
.53 Interior ballistics
Effects of powders; experiments
.54 Exterior ballistics
.55 Sighting and firing
.551 Field and mountain guns
.552 Siege guns
.553 Fortress, coast and naval guns
.554 Naval target practis
.56 Effect of projectils
.561 On living targets: impact, gases
.562 " inanimate targets
1 Earthworks
2 Masonry Concrete
3 Armor
.57 Reaction of mounts
.571 Rigid rolling mounts
.572 " sliding "
.573 Theory of braking
.574 Mechanically controld recoil
.575 Nonrecoil mounts
.58 Traction of carriages

623.6 Military roads, bridges and bildings

From the special point of view of military servis. For construction in general see 690.1 and 721; for bridges, roads and railways see 624 and 625; for seacoast walls, see 627 Hydraulic engineering

.61 Military bildings

Duplicating 725.18 for military engineers. Libraries should use 725.18 and leave 623.61–.614 vacant; for construction of fortifications see 623.1

.611

.612 Barracks

.613 Military establishments

Groups of bildings forming a unit; e.g. military schools, army posts

.614 Magazines

.62 Military roads and thorofares

See also 625.7 Construction of roads

.63 Military railways

See also 625 Railway construction

.631

.632 Destruction of tracks

.633

.634

.65 Military bridges

For permanent bridges see 624

.651

.652 Pontoon bridges

.653 Trestle bridges

.654 Other temporary bridges

.66 Bridge material

.7 Military signals Aeronautics, etc.

Special military applications of science

.71 Military topografy

Special processes and instruments. See also 526 Topografy in general

.72 Photografy

Reproductiv processes applied to military art. See also 770 Photografy

.73 Signaling Military telegrafy

.731 Visual signals: heliografs, searchlights, etc.

.732 Military telegrafy

Both wire and wireless. See also 621.382 and 654 Telegrafy

.733 Military telefony

Both wire and wireless. See also 621.385 and 654.6 Telefony

.74 Military aeronautics

For principles see 533.6 Aeronautics: for construction of airships see 629.13 Class here only military utility

.741 Machines lighter than air

.742 Free balloons

.743 Dirigible balloons

.744 Captiv balloons

.745

.746 Machines hevier than air: aeroplanes

.749 Other

.75 Military sanitation

Camp sites: soil, water, drainage, etc. For personal hygiene see 613.6,

623.8 Naval architecture Shipbilding

Including warship accersories. Class here comprehensiv works on shipbilding. Subdivide with 001–009 and 02–09 like 620. For ship design and theory see 623.81 Design; for principles of flotation see 532.3 Floating bodies

.81 General Design

Class here also separate discussion of such general questions as flotation, displacement, stability, strength, resistance, propulsion and design; i. e. speed and power, coal endurance and steaming radius, passenger or cargo capacity. etc.

.82 Types of ships and boats

.821 Primitiv and early forms

2 **Rafts, catamarans, dugouts; galleys**

.822 Modern sailing vessels

5 **Caravels, sailing yachts, etc.**

See also 797 Yachting; 623.824 Power yachts

.823 Engin driven vessels

Steam, internal combustion, electric, etc.

2 **Tugs and lighters**

4 **Ferry boats: passenger, freight and train**

.824 **Passenger and cargo vessels**

River, lake or ocean liners; power yachts, etc. For tugs, ferryboats, small motor boats, etc. see 623.823

.825 **Warships**

Fighting vessels: battleships, cruisers, gunboats, monitors, torpedo boats, submarines. For sailing men-of-war see 623.822

.826 **Other government vessels**

Transports, hospital ships, store and fuel ships (supply, food, refrigeration, ammunition ships; colliers, oilers, mineplanters, etc.) repair ships, lightships and lighthouse tenders, police boats, revenue cutters, fish commission boats, fireboats, etc.

.828 **Other power vessels**

Ships for cable laying, icebreakers, trawlers, etc. For dredges see 627.7

.829 Other boats

Flatboats, scows, lighters, canal boats, barges, rowboats and canoes, lifeboats, surf boats

.83 Appliances peculiar to shipbilding

Model tanks and experiments, including also Froude's tests on full size ships; launching ways and launching; dry or graving docks; moldloft and scriveboard

.84 Hull and its accessories

Structural: watertight compartments; systems of construction (wood, composit, iron and steel), structural details (framing, bulkheds, etc.)
Nonstructural: joinery, nonstructural decks

.85 Hull accessories: masts and spars; rudder and steering gear; drainage, etc.

Lighting, ventilating, heating, refrigerating; electric plant and lighting for ship installation only; see also 621.3 Electric engineering
Ship fittings: doors, hatches, etc.

.86 Equipment and outfit

Superadded, not bilt in, but necessary for effectiv use of ship
Sails and rigging; anchors, chains, cables, hawsers; compasses, sounding machines, speed logs; boats, rafts, life preservers, buoys
Furniture, saloon and cabin furnishings; table and galley (kitchen) outfit. See also domestic economy, 645

.87 Propelling machinery

Vibration and balancing. For theory of propulsion see 623.81
See also 621.12 Marine engins; 621.165 Steam turbins; 621.18 Boilers

.9 Armor and armament

Distribution, armoring; proper hight, etc; battery
For manufacture of armor plate see metallurgy, 669.1 Iron and steel

.95 Torpedoes Launching tubes and other accessories

624 Bridges and roofs Viaducts

Subdivide if wisht like 620.1–.9 and 620.0

.1 **General**

.12 Purpose

Highway, foot bridges, etc. regardless of structural type

.13

.14 Location Approaches

.15 Foundations

General works Foundations of bildings are better clast 721.1

.151 Foundation bed Nature of soil

.152 Excavation, timbering, shoring

624.153–.157 may be subdivided like 721.13–.17

.153 Material for bilding foundations

For material for superstructure see 624.01

.154 Pile foundations: general Material

.155 " " methods of sinking

.156 Platform foundations

.157 Subaqueous foundations

Processes: cofferdam, caisson, freezing

.16 Piers and abutments

Wood, masonry, metal. Subdivided like 620.1

.17 Stresses and strains

General; if limited to a special type, class with that type

.171 General Computation of stresses

.172 Loads

Ded, live or moving loads

.173 **Highway**

.174 **Railway**

.175 Wind pressure

.176 Working stresses

.2 **Girders and girder bridges**

Including floor systems; see .25 below

.21 Girders

Continuous; discontinuous or independent

.22 Solid beams

.222 **Wood**

.227 **Metal**

.23 Plate girders Lattis girders

.24 Trestles

.25 Floor systems

.27 Girder bridges

.3 **Trusses and trussed bridges**

Constructed of systems of braced girders

.31

.32 Simple truss

.33 Continuous truss

.35 Cantilever truss Balance bridge

.4 **Tubular bridges Box-girder bridge**

624.5 **Suspension bridges**
.52 Flexible Rope bridge
.53 Rigid
.55 Cables
.56 Towers or piers
.57 Anchorage
.6 **Archt bridges**
.62 Wood
.63 Masonry
Stone, brick, concrete, reinforced concrete
.67 Metal: iron and steel
.68 Hinged arch
.7 **Compound structures**
Structurally compound; e. g. plate girder and suspension, trussed arch
.8 **Movable bridges Drawbridges**
.82 Bascule: counterpoise, folding
.83 Swing: pivot, swivel, turning
.84 Lifting
Whole bridge lifted vertically
.85 Rolling
Floating: see also 624.87
.86 Aerial and other traveling bridges
.87 Pontoon bridges: floating, boat or raft
.9 Roofs
For other relations see Roofs in Relativ index

625 Railroad and road engineering
May be divided by 0 and 00 like 620. For railway operation see 656
.1 **Way and works**
.11 Route
Reconnaissance, preliminary and locating surveys; center lins; grades; curvs; switchbacks
.12 Permanent way Roadbed
Earthwork: surveys, computation, classification, cuts and fills. Drainage
.13 Structures: tunnels, culverts, snowsheds
Class here general works on tunnels; see also mining 622.26
For bridges and trestles see 624; for transportation buildings see 725.3
.14 Track: ballast, ties and tieplates, strains
Including also rails and their accessories
.146 Monorail tracks
.15 Rails and accessories
Rail braces, rail joints, chairs, track bolts, nut locks, spikes
.16 Track accessories
Turnouts, switches, sidings, bumping posts; crossings; signals; turntables; ashpits, track tanks; cattle gards
.17 Road maintenance and repair Materials
.18 Road equipment
Fences, gates, platforms, track scales, yards, etc. Stations, depots, shops, etc. considerd as road accessories
For stations, depots, roundhouses, etc. see 725.3
For shops see 621.7
.19 Other topics

625.2 Trains and accessories

Interrelations of road and rolling stock; strain and wear
For car bilding see 699 For time tables, traffic, etc. see 656

.21 Running gear

Trucks, bogies and Bissell bogies; wheels, axles, tires, balancing; axle boxes and gards; lubrication
Suspension, bearing springs

.22 Cars See also 699 car bilding

Transverse section of car and track gage
Effect of length of car in rounding curvs

.23 Passenger cars

.24 Freight and combination cars

.25 Brakes Buffers and couplings

.26 Power requirements

Length and weight of trains. Speed
See also 621.13 Steam engins; 621.3342 Electric engins; 621.43 Gas engins

.27

.28 Monorail rolling stock

.3 Inclined and mountain railways

.32 Funicular railways

.33 Rack railways

.4 Elevated and underground roads, subways

.5 Cable roads

.6 Street railways, tramways

See also 621.33 Electric traction; 625.4 Elevated and underground railways; 625.5 Cable roads; 699 Carbilding

.7 Roads, highways, streets

See also local government, 352.7 Streets, highways; for pavements see 625.8

.71 Road systems

.711 Rural

.712 Urban

.72 Location

Preliminary and locating surveys Grades Curvs

.73 Roadbed, foundation

Earthwork Subsurface drainage

.74 Dirt roads Crowning Drainage

.75 Surfacing Oil and other binders

.76 Maintenance and repair

.77 Trees Parkings

.78 Subsurface condits, pipes, etc.

Sewers; water, steam and gas pipes as affecting roads

.79 Other topics

625.8 **Pavement**
.81 Flagstone
.82 Stone blocks and br'ck
Including cobblestone. Requirements of paving stones
For vitrified brick see 625 87
.83 Wood pavements Corduroy, plank, blocks
.84 Concrete pavements
.85 Asfalt "
.86 Stone roads
Macadam, telford and other broken stone processes
.87 Metal, vitrified brick, reinforced blocks
For other brick pavements see 625.82
.88 Sidewalks May be divided like 625.81–.87
.888 Curbs
.89 Other topics
.9 **Ship railways**

626 Canal engineering
.1 **Route**
.2 **Water supply**
.3 **Size and shape**
.4 **Locks**
.5 **Lifts and inclined planes**
.6 **Canal boats: size, shape, etc.** See 623.829 Shipbilding
.7 **Towing; power, etc.**
.8 **Irrigation canals and other irrigation works**
.9 **Ship canals**

627 River, harbor, and general hydraulic engineering See also 624.157 and 721.17 Subaqueous foundations
.1 **Rivers: force of water, discharge, bars**
River improvement
.2 **Harbors Breakwaters**
.3 **Docks Piers Quays Shipping facilities**
.4 **Dikes and levees, embankments**
.5 **Other protection and reclamation of land from tides and waves, drainage** For agricultural drainage see 631.6
.6 **Jetties**
.7 **Dredging Dredging machinery**
.8 **Dams**
.9 **Lighthouses Buoys**

628 Sanitary engineering Waterworks
.01 Theories, utility .02 Compends .03 Dictionaries .04 Essays .05 Periodicals .06 Societies .07 Study and teaching .08 Polygrafy .09 History and description of sanitation and general sanitary works, divided geograficly like 930–999
.1 **Water supply of towns** For isolated supply see 628.7
.11 Sources of water supply
Lakes, rivers, springs, wells, and pumping
.12 Pumping vs gravitation systems
Pump well, standpipe, high servis, Holley system

628.13 Storage and servis reservoirs
.14 Condits, aqueducts, tunnels See 625
.15 Mains and servis pipes Freezing, iron, lead
.16 Impurities and their removal: filter basins, etc.
.17 Public (sprinkling, fire, flushing), manufacturing, and domestic use and waste; meters
.2 Sewerage works
.21 Sewerage systems
.211 Combined system
.212 Separate system
.213 Liernur system
.214 Shone system
.215 Berlier system
.216 Other systems
.217 Outfall
.218 Depth and alinement
.219 Grade and velocity
.22 Shape and size of sewers
.221 Stormwater flow
.222 Ordinary flow
.223 Circular section
.224 Ordinary eg shape
.225 Other eg shapes
.226 Other forms
.228 Formulas for size
.23 Ventilation of sewers
.231 Openings in streets
.232 Lamp posts
.233 Flues in houses
.234 Pipes on houses
.235 House drains
.236 Chimneys and furnaces
.237 Charcoal and chemicals to deodorize sewer gas
.238 Special mechanism
.239 Special construction
.24 Design and construction of sewers
.25 Sewer appurtenances
.251 Junctions
.252 House connections
.253 Manholes and lampholes
.254 Flushing shafts and fixtures
.255 Catch basins and inlets
.256 Traps and ventilators
.257 Valvs and penstocks
.258 Overflows and regulators
.259 Miscellaneous

628.26 River crossings
.27 Intercepting and outfall sewers
.28 Reservoirs and tank sewers
.29 Pumping stations
.3 Sewage and its disposal
.31 Physical properties of sewage
.32 Deodorization and disinfection of solids and liquids
See also 628.237
.33 Subsidence
.34 Precipitation
.341 Precipitation tanks
.342 Mixing machinery
.343 Filter presses
.344 Precipitation by salts of alumina
.345 By lime
.346 By salts of iron
.347 By other methods
.348 Disposal of sludge
.349 Miscellaneous
.35 Filtration
.36 Irrigation
.361 Broad irrigation
.362 Ridge and furrow irrigation
.363 Flatbed irrigation
.364 Subsurface irrigation
.365 Intermittent downward filtration
.366 Carriers and appurtenances
.367 Drains and drainage of sewage farms
.368 Filtration areas
.369 Miscellaneous
.37 Sewage farming Required modifications of ordinary methods
.38 Sewage manures See also agriculture, 631.8425
.39 Discharge into sea, etc.
.4 Sanitation of towns
.41 Middens and privies
.42 Pail systems
.43 Earth closet systems
.44 Domestic ashes, garbage and refuse
.45 Public urinals and latrines
.46 Street cleaning and sprinkling
.47 Pavements and subways
.48 Trees in streets and squares
.49 Manufacture of fertilizers from town wastes

628.5 **Industrial sanitation**
.51 Factories and trades
.511 Prevention of dust and fumes
.512 Protection of throat and eyes
.513 Protection against infection
.519 Special trades
.52 Effluvium nuisances
.521 Situation of works
.522 Use of high chimneys
.523 Condensation in water
.524 Combustion in furnaces
.529 Special trades
.53 Smoke nuisance
.538 From steam generators
.539 From special industries
.54 Disposal of solid and liquid wastes
.541 Discharge into streams
.542 Absorbing wells and burial
.543 Clarification by subsidence
.544 Chemical treatment
.545 Filtration
.546 Purifica ion by the soil
.549 Special methods and special trades
.6 **House drainage**
.7 **Rural water supply: villages and country houses**
.8 **Ventilation and heating**
This hed is chiefly for ventilation. Most matter on heating goes in 697
See also Heating, Ventilation, in Relativ index following tables
.9 **Lighting**
For other relations and applications see Lighting in Relativ index

629 Other branches of engineering

.13 **Aeronautics Aerial navigation**
Usual form division .09 to include general accounts of voyages, but class special voyage with type of machine used
.141 Aerostatics
.142 Aerodynamics, bird flight, soaring
.143 Meteorologic conditions; wind currents, etc.
.144 Aerodromes, flying grounds, parks
Experiment stations, landing places, sheds, hangars
.145 Navigation
Atmospheric roads, airways; aerial maps, topografy; airsickness; disasters
148 Laws, international and local

629.15 Aircraft lighter than air Aerostation

.151 Nondirigible

Hot air balloons, montgolfières; pilot balloons; balloon sonde; kite and captiv balloons

.154 Dirigible Airships

.155 Rigid

.156 Semirigid

.157 Nonrigid

.16 Construction

.161 Gas envelop, material

Balloon fabrics, netting, gas used, apparatus for inflation

.162 Car or basket, cabin, seats

Method of attaching to gas envelop

.163 Motors

See 621.4387

.164 Propellers

.165 Steering apparatus

.166 Balancing: gyroscope

.167 Landing apparatus: anchors, parachutes

.17 Aircraft hevier than air Aviation

.171 Kites

.172 Gliders

.173 Monoplanes

.174 Biplanes

.175 More than 2 planes

.176 Helicopters

.177 Ornithopters or orthopters

179 Special adaptations: hydroaeroplanes, aviets

.18 Construction

.181 Structure

Planes, wings, ailerons, etc.

.182 Seats, cabin, etc.

.183 Motors

See 621.4387

.184 Propellers

.185 Steering apparatus

.186 Stability, balancing apparatus

.187 Starting and landing apparatus

.19 Applications of aeronautics

.2 Motor vehicles, automobiles

Mechanically propeld and motor vehicles for highways: bicycles, motor cycles, etc. For highway vehicles for separate tractors (animal or mechanical) see 68

630 Agriculture

SUMMARY

631 Farmsted Soil
632 Hindrances
633 Field crops
634 Fruits Vinyards Forestry
635 Garden crops
636 Domestic animals
637 Dairy and dairy products
638 Bees, silkworms, etc.
639 Hunting, trapping, fish culture

.1 **Rural life**
Rural exodus. Improvement of country life conditions
.2 **Compends**
.23 Agricultural physics
.24 " chemistry
.28 " botany
.29 " zoology
Only for general treatises. Those relating to a special subject ar clast with the subject: e. g. chemistry of milk 637.127
.3 **Dictionaries, cyclopedias**
.4 **Essays**
.5 **Periodicals**
.6 **Societies, clubs, conferences**
.61 Official institutions; government departments
.62 Voluntary associations
Not under government control
.621 International (International institute of agriculture)
.624–9 Associations divided by country
Subdivided like 940–999: e. g. 630.6244 French agricultural societies, 630.6273 Patrons of Husbandry, including state and local granges; Farmers alliance, etc.
Societies of limited scope ar clast with their subjects; e. g. horse breeders associations 636.106
.63 Congresses, conferences, temporary organizations
.7 **Study and teaching**
For agriculture as a school subject see 375.63; for school gardens see 372.36
.71 Instruction, schools
.711 Colleges Alfabetic; but may be subdivided like 940–999 if preferd
.712 Schools Arranged like .711 colleges
.713 Short courses
2 Summer
5 Winter
.714 Correspondence courses
.715 Institutes Farmers institutes
.716 Courses in nonagricultural institutions
.717 Extension work
County agent, boys and girls clubs
.719 Other instruction
.72 Research work Experiment stations
74 Museums, exhibits
.77 Special pedagogic methods
.775 Normal training classes
.79 Competitions, prizes, etc.
.9 **History, divided like 930–999**

631 The farm, farmsted Soil

SUMMARY

631.1 Farm economics
.2 " bildings
.3 " machinery and tools
.4 Land, soil, soil chemistry
.5 Tillage and farm operations
.6 Drainage and reclamation
.7 Irrigation and conservation of moisture
.8 Fertilizers
.9 Climate, roads, etc.

.09 **Geografic distribution of cultivation**
.091 Zones and physical regions
1 Arctic regions
2 Temperate zone
3 Tropics
4 Mountains

631.1 Farm economics

Farm and estate management

.11 Selecting and acquiring a farm
Land settlement guides
Location: nearness to market; means of communication, by water, by land (railways, highways), climate and rainfall

.112 Purchase
Cost, valuation, taxes

.113 Rent

.114 **Share systems** (Métayage)
See also 631.1153

.115 Systems of working a farm
1 **Owner his own farmer**
2 **By a manager**
3 **Share system**
From owner's point of view
See also 631.114 from worker's point of view
4 **Renting**
From owner's point of view
See also 631.113 from renter's point of view

.116 Scale of farm
1 **Large farm**
2
3 **Small farm (One-man farm)**

.12 Laying out farm
Locating bildings, fields, farmsteds, roads and lanes

.13

.14 Types of farms

.141 Crop farm

.142 Vegetable farm

.143 Fruit "

.144 Woodlands
See 634.9 Forestry

.145 Stock farm
See 636 Domestic animals; 637.113 Dairy farms

.146 Fish culture in ponds
See 639 Hunting, trapping, fishing

631.16 Finances and accounts Bookkeeping records
.17 Expenses
.171 **Buying supplies Purchases**
.173 **Wages**
.175 **Insurance: bildings, stock, crop**
See also Insurance business 368.5
.177 **Packing, shipment**
For methods see 631.564
.18 Returns Selling products
Marketing
.2 **Farm bildings**
For architecture, see 728.67 Farm houses; 728.9 Outbildings
.21 Houses Dwellings
.22 Barns Poultry houses Stables
.23 Granaries Silos
.24 Carriage houses
.25 Machine sheds
.26 Other bildings
.27 Fences, walls, hedges
.28 Roads, bridges, etc.
.3 **Farm machinery Tools, appliances, etc.**
Care and repair of farm machinery
.31 Clearing and soil working: general tools
.311 Digging tools, machines, etc.
1 **Spade: turf, ditching, post, polisht-drain, longhandled garden spades**
Shovel: prongd shovel For steam shovel see 621.865
Spud
2 **Small too:s**
Trowel, for mason's trowel see 693. Dibble, dibber or dibbler. See also seeders
3 **Posthole digger**
Posthole auger or borer. Spudding bit
4 **Forks; for digging, etc. Dung-fork**
For hay forks, pitchforks, see 631.3535
5 **Digging machines**
Spaders, rotary spaders, horse shovel, road scraper
6 **Crow or crowbar**
Pick. See also mining picks 622.
Pickax, mattock, grubbing hoe, grubbing ax
7 **Stump extractor or puller Stone gatherer Bush sithes**
.312 Plows
1 **Common plow; walking plow; hand plow**
2 **Riding plow; sulky plow**
Double plow, double-furrow plow, 2-furrow plow
Balanst plow Gang plow, multiple-furrow plow
3 **Power plow**
Steam plow, traction engin, stationary engin; oil or gas engin; electric

631.3124 **Reversible plow, turning moldboard plow**
Sidehil or hilside plow, turn-wrest plow, one-way plow, drill plow, also sometimes called double plow and swing plow

5 **Breaking plow**
Paring plow, sod plow, prairie plow, skim plow

6 **Pulverizing plow, stubble plow, digging plow**
Subsoil plow, mole plow

Double mold board plow, doublebrested plow
Middle "buster" or burster, middle breaker

7 **Other special plows**
Vinyard plow
Seeding plow
Scooter
Stump jumper, or stumpjump plow
Skim colter plow
Bul-tung and calf-tung plow

8 **Disk plow**

.313 Harrows

1 **Smoothing harrows**
Bush harrows; plank-scraper; fixt and adjustable tooth, frame harrow

2 **Chain harrow**

3 **Spring-tooth harrow**

4 **Curvd knife-tooth harrow, pulverizer**

5 **Revolving harrow**

6 **Disk harrow: ful disk, cutaway**

7 **Spading harrow, scuffle harrow**

8 **Special uses**
Orchard disk harrow

.314 Rollers, etc.

1 **Rollers**
Wood, stone, metal. Hand, horse, riding, power

2 **Disk rollers**

3 **Clod crushers, clod breaker**

4 **Subsurface packer**

6 **Planker, plank drag**

.315 Hand gardening tools

1 **Hoe**
Draw, field, bayonet, garden

2 **Thrust, Dutch, push, scuffle, D hoe**

3 **Scarifier or scraper**

4 **Weeder**
Hand weeder, finger weeder, weed-hoe, weeding forceps, weeding fork, weeding iron, weeding pincers, weeding tongs

5 **Weed cutters**
Weed hook, weeding chisel, weeding shears

6 **Garden rakes: wood, iron**

.316 Cultivators

1 **Wheel hoe, hand cultivator**

2 **Horse cultivators**
Walking cultivators, horse hoe, shovel plow
Scarifier, scooter, scuffler, hasp, sweep, grubber

3 Riding or sulky cultivators
Balance frame

4 Surface or gofer cultivator
Heel scrape, scrape

5 Disk cultivator

6 Stalk cutter

631.33 Seeding and sowing machinery
·331 Seed sowers, seeding machines
1 **Broadcast sowers, seeders**
Hand machines
2 Walking
3 Riding
4 **Land and row markers**
5 **Furrow sowers** **Drils**
6 Walking
7 Riding
8 **Special sowers**
·332 Planters
1 **Hand, foot**
2 **Walking**
3 **Riding**
4 **Check rowers**
8 **Special planters**
·333 Fertilizer distributers
1 **Hand machines**
2 **Walking**
3 **Riding**
4 Liquid fertilizer
5 Pulverized "
6 Farmyard manure, manure spreders
·334 Mixt spreders
Both fertilizer and seed
·335 Propagation apparatus
Cutting benches, layering pots, etc.
·336 Transplanters
1 **Ballers**
6 **Tree conveyers**
·34 Equipment for care of plants, trees, etc.
·341 Grafting, etc. implements and material
Budding knife, grafting knife, grafting wax
·342 Pruning
1 **Shears or pruner** **Hedge trimmer**
2 **Knife or hook**
3 **Chisel**
4 **Bil hook**
5 **Ax or hatchet**
6 **Saw**
7 **Scraper**
·344 Protection and shelter
See also 632.1 and 632.9
1 **Bel glasses**
2 **Cold frames**
3 **Hot beds**
4 **Greenhouses**
5 **Forcing houses**

631.345 Supports
- 1 **Vertical cords and wires**
- 2 **Poles, stakes, stays, props**
- 3 **Trellises, espaliers**
  - Horizontal wires or cords
- 4 **Fruit walls**

.346 Receptacles: pots, boxes, etc.

.35 Harvesting

.351 Hand tools, primitiv tools
- 1 **Sickle, reaping hook, grass knife, grass hook**
- 2 **Sithe**
- 3 **Cradle, cradle sithe**

.352 Mowers
- 7 **Lawn mowers**

.353 Other haying implements
- 1 **Hay spreders, tedders**
- 2 **Hay rakes, gatherers, binders, windrowers**
- 3 **Hay loaders**
- 4 **Hay stackers**
- 5 **Hay forks and carriers**

.354 Reapers
- 1 **Self binders**
- 2 **Harvester** **Combined harvester and thresher**
- 3 **Heders** **Clover heders**

.355 Corn harvesters
- 1 **Corn shockers**
- 2 **Stubble cutters**
- 3 **Corn pickers**
- 4 **Strippers**
- 5 **Toppers**

.358 Special crops
- 1 **Fruits, nuts**
- 3 **Legumes, peas, beans, etc.**
- 4 **Root crops, etc.**
- 5 **Fiber crops: cotton, flax, hemp**
- 6 **Sugar cane**
- 7 **Other crops**
- 8 **Tree products**
  - Maple (sap), pine (turpentine), gums, resins, gutta percha, ect.

631.36 Machinery, tools, etc. used in preparing for storage or transport

.361 Threshers, etc.

1 **Primitiv tools**

Flails, drags, wain

2 **Mechanical threshers**

3 **Huskers**

4 **Shellers**

.362 Cleaning

1 **Primitiv tools**

Shovel, siv, fan

2 **Winnowers, fanning machines**

3 **Sorters, sifters**

6 **Washers for roots and tubers**

.363 Silo machinery

Ensilage cutters

.364 Packing for transportation or storage

1 **Bundlers**

2 **Balers** **Baling presses**

3 **Bunchers**

4 **Packers: baskets, boxes**

See 631.3721

.37 Power, power transmission appliances Transport

.371 Motiv power

1 **Human power**

2 **Animal power**

3 **Water power**

4 **Windmils**

5 **Steam engins**

6 **Gas engins, oil and alcohol**

7 **Electricity**

.372 Tractors

1 **Steam**

2 **Gas, oil, alcohol**

3 **Electric**

.373 Transport appliances

1 **By carrying**

Baskets, boxes, bags, etc. handbarrows

2 **On animals backs: packs, saddlebags, etc.**

3 **Drags** **Sleds** **Stoneboats**

4 **Hand-carts, wheelbarrows**

5 **Wagons** **Chute wagons** **Drays**

Dumping wagons, hayracks, lumber wagons, trucks

6 Motor trucks

9 Other vehicles

.374 Harness Saddles

.38 Implements for care of farm animals

631.4 Land, soil

.41 Soil chemistry
Chemic properties and constitution of soil

.411 Composition according to geologic origin

.416 Inorganic chemistry

.417 Organic chemistry

.42 Analysis and experiments
Methods of investigation: chemic, mechanical

.43 Soil physics

.431 Specific weight (gravity) of soil

.432 Humidity
Water Ground water
Soil moisture: hygroscopic, capillary
Permeability Absorption

.433 Atmosfere: air, gases

.436 Temperature
Warmth of soils

.44 Soil classification Adaptability
Alkali lands; soils for special crops, tobacco, etc.

.45 Soil fertility: maintenance, exhaustion
See also 631.8 Fertilizers

.46 Soil bacteriology: microbes, ferments, sterilization

.47 Soil surveys

.49 History

.5 Tillage and farm operations

.51 Soil preparation and working

.511 Spading, digging, forking

.512 Plowing, subsoiling

.513 Blasting, use of explosivs

.514 Harrowing

.515 Rolling, planking

.516 Hoeing, raking, weeding

.517 Cultivating

.52 Selection, breeding, etc.

.521 Selection
Seed selection
" cata ogs
3 Plant selection
4 Nursery catalogs

.522 Plant breeding

.523 Hybrids Crossing Creation of new varieties

.524 Introduction of new kinds

.525 Acclimatization

631.53 Methods of plant multiplication

.531 Seedage Seeds

1 **Sowing broadcast**

2 **Drilling, in rows**

3 **Planting in hils or separate seeds**

7 **Spores**

.532 Separation of growing plant

1 **Young bulbs, offsets**

Bulbels, bulbules or bulblet; separation of small from parent bulb

2 **Tubers**

Cutting into "sets" each with an eye

3 **Division or partition of tufted growing plants**

.533 Detaching of separate plants

1 **Suckers, root suckers, stem suckers**

2 **Runners, stolons**

3 **Proliferous buds**

.534 Layering

1 **Ordinary; each shoot makes one new plant**

2 **Multiple, serpentine, or trench**

3 **Mound or stool layering**

See also 631.5323

4 **Circumposition, potted, aerial, air or Chinese layering**

6 **Layering trees and shrubs**

7 " **vines**

.535 Cuttings

1 **Choice of cutting**

2 **Preparation for planting**

3 **Planting**

4 **Branch or stem cuttings**

5 **Short cuttings: cuttings of single eye or bud**

6 **Root cuttings**

7 **Leaf and bulb scale cuttings**

.536 Transplanting

For grafting and budding see 631.54

.54 Caring for plants

For protection against injuries, see 632

.541 Grafting

For bridge grafting, sometimes called bark grafting, see 632.8

1 **Selection of stock and scion, affinity**

2 **Suitable age and season**

3 **Methods of grafting Scion grafting**

31 Cleft grafting

32 Splice "

33 Whip "

34 Saddle "

35 Veneer "

36 Bark "

In England and France called crown grafting, see 631.54142; and sometimes used to mean bridge grafting, see 631.541

37 Herbaceous grafting

631.5414 **Grafting according to position of scion**
41 Root grafting
42 Crown "
See also 631.54136, note
43 Stem grafting (on main stem or trunk)
44 Top " (in top or branches)
5 **Bud grafting Budding**
Formerly called inoculation Flute grafting
6 **Grafting by approach, inarching**
7 **Binding and protecting grafts**
8 **Indoor grafting**

.542 Pruning
1 **Winter pruning**
11 Theories of pruning
12 Methods of pruning
13 Heading in
14 Thinning of branches
15 Scraping
17 Time to prune
2 **Summer pruning Work on green wood**
21 Pinching in
22 Nipping off buds
23 Clipping
24 Ringing, girdling
27 Thinning fruit
3 **Trimming (to secure definit shape)**

.543

.544 Forcing
1 **Bel glasses**
2 **Cold frames**
3 **Hotbeds**
4 **Greenhouses**
5 **Forcing houses**

.545 Retardation

.546 Training
1 **Vertical, poles, stakes, cords**
3 **Espalier or trellis training**
4 **Wall training**
5 **Arbor training**
6 **Cordon training**

.547 Stages of plant growth
1 **Seedling**
2 **Increase, growth**
3 **Maturity**
4 **Flowering**
5 **Fruitage**
6 **Ripening**

631.55 Harvesting, storage, preservation

These numbers treat of the material operations of harvesting. Class anything about a definit crop under its special number; e. g. 633.11 Wheat crop. See also 631.56 for preparation of crop for market, 636.085 for preparation of food for cattle, etc. For farther preparation of agricultural products not usually done by the farmer at the present day, see the various divisions of commerce, technology and manufactures

.552 Mowing

.553 Hay making, stacking, etc.

.554 Reaping

.555 Corn harvesting

.556 Harvesting other special crops

For cutting and felling trees see 634.9 Forestry

1 **Fruits, nuts, etc.**

3 **Legumes: peas, beans, etc.**

4 **Root crops and tubers**

5 **Fiber crops: flax, hemp, cotton picking**

6 **Sugar cane, etc.**

7

8 **Saps, gums, resins, etc.**

9 **Other crops**

.56 Preparation for storage and transport

See note under 631.55

.561 Preparing grains

2 **Threshing, etc.**

3 **Husking corn, etc.**

4 **Shelling corn**

.562 Cleaning, etc.

2 **Winnowing**

3 **Sorting, sifting**

6 **Washing (roots, tubers, etc.)**

.563 Storing green fodder

Cutting, and filling silos

.564 Packing for transportation or storage

2 **Baling**

4 **Packing in baskets, boxes and barrels**

.57

.58 Special methods

.581 Fallowing

.582 Crop rotation

.583 Intensiv farming

.584 Catch crop culture

.585

.586 Dry farming Deep soil culture

.587

.588 Application of special forces

1 Electro culture

2 Radio "

631.6 Reclamation Drainage

.61 Initial operations

.611 Prairies

.612 Waste lands: rocks and bushes

.613 Hilsides: terracing

.614 Forests

.615 Marshes Swamps

.616 Lands under water Polders

.617 Deserts

See 631.7 Irrigation

.62 Drainage methods

Ditches Drains (open, coverd, tile)

.63 Drainage systems

Plans, layouts

.64 Dikes and embankments

.65 Water removal by machinery

Pumps, windmils, etc.

.7 Irrigation, water supply

Conservation of moisture. Rainfall, streams

.71 Source of water: wels, reservoirs

.72 Irrigating canals

.73 Systems of irrigation

Plans, etc.

.74 Mesure and distribution of water

.75 Cost of water

.76

.77

.78 Machinery

.79 Methods of conserving moisture

Mulching

See also 631.586 Dry farming; 631.8 Fertilizers, amendment of soils

.8 Fertilizers

.81 History, nature, uses

.811 Nutrition of plants; necessary principles

.812 Production, preparation, collection, conservation

.813 Composition

.814 Loss of fertilizing principles

.815 Economic value

.816 Use Methods of application and distribution

.817 Purchase Transport Cost

.818 Frauds Adulterations Control; legislation, inspection, analysis

Any special fertilizer may be subdivided like 631.81; e. g.

631.8525 Economic value of bone as a fertilizer

631.8733 Composition of seaweed

631.82 Mineral amendments
.821 **Lime, gypsum, plaster**
.822 **Marl**
.825 **Sulfate of iron**
.83 Potash fertilizers
.831 **Wood ashes, vegetable ashes, burning turf**
.832 **Chlorids**
.833 **Sulfates**
.84 Nitrogen fertilizers
.841 **Ammonia**
.842 **Nitrates**
1 Calcium cyanid
5 Sewage
.843 Animal industry residues: skin, etc.
Slaughter house refuse. See also 831.852 Bone
.844 **Fish**
.845 **Blood**
.846 **Tankage**
.847 Vegetable nitrogen fertilizers
Cotton seed meal, castor beans, pomace
1 **Nitrifying crops**
2 **Soil inoculation Bacteria Nitrification**
For soil conditions see 631.46. Here class introduction of bacteria to improve the soil. The difference is the same as between 631.45 Soil fertility and 631.8 Fertilizers
.848 Azotin, ammonite, etc.
.85 Fosforic acid
.851 Natural rock
.852 Bone
.853 Slags
.854 Guano
.855 Superfosfates
.86 Farmyard and stable manures, etc.
Subdivided like 636; e. g. 631.862 Cow manure
.87 Vegetable manures
.871 Muck
.872 Leaves
.873 Seaweed
.874 Green manures
.875 Vegetable compost
.876 Residue from vegetable industries
.88 Fertilizer experiments
.9 Climate, roads, etc.

632 Hindrances: blights, pests, insects

Including those injurious to either plants or animals, but material relating to diseases of animals is better clast in 619 or 636.089 and *may* attract all matter specially relating to animals

.1 **Elemental destruction Protection**
.11 Low temperature, frost, freezing
.111 Methods of protection
.112 **Warnings: wether bureau, thermometers**
.113 **Covering**
.114 **Artificial clouds**
.115 **Fires**
.116
.117
.118 Repairing damages
.12 Excessiv heat and drout
.13
.14 Hail
.15 Lightning
.16 Wind and rain
.17 Floods, inundations
.18 Fires: forest and prairie
.19 Other destructiv agents
Earthquakes, fumes, gas, etc.
.2 **Galls Cecidiology**
No subdivision at present
.3 **Bacteria and bacterial diseases**
No subdivision at present
.4 **Fungi**
Divided like 589.2
.5 **Parasitic and injurious plants**
.58 Weeds
.59 Plants injurious or poisonous to animals

632.6 Injurious animals
Divided like 590, but class injurious insects in 632.7 insted of 632.657

.7 Injurious insects
Divided like 595.7

.71 Thysanura, etc.
Bristle tails or silver fish, spring tails

.72 Orthoptera
Grasshoppers, locusts, roaches, earwigs, leaf insects. See also 632.75 for leaf hoppers

.73 Pseudoneuroptera
Dragon flies, thrips

.74 Neuroptera
Lacewing flies, caddis flies

.75 Rhynchota, hemiptera
Afids, biting lice, cicads, grass flies, scale insects, chinch bug, squash bug, mealy bug, leaf hoppers. See also 632.72 for other leaf insects

.76 Coleoptera
Beetles, flat-hed and round-hed borers, weevils, wire worms

.77 Diptera
Flies, mosquitos, gnats, midges, fleas, root maggots, army worm, Hessian fly

.78 Lepidoptera
Butterflies, moths, caterpillars

.79 Hymenoptera
Ants, bees, wasps; saw, gall, and ichneumon flies

.8 Diseases and injuries
Other than coverd by 632.2–.7

.9 Means of protection
Other than coverd by 632.1; e. g. netting and covers, screens, gards, scarecrows

.94 Methods and apparatus
Spraying, dusting, fumigating

.95 Preparations and materials
.951 Insecticides
.952 Fungicides
.953 Antiseptics

.96 Natural enemies of pests
May be subdivided like 590

633 Field crops: grains, grasses, fibers, etc.

SUMMARY

.1 Cereals, grains
.2 Grasses
.3 Legumes
.4 Root crops
.5 Fiber crops
.6 Sugar plants and starch
.7 Alkaloidal plants
.8 Perfumes, spices, condiments, etc.
.9 Other plants

.1 Cereals

.11 Wheat
.12 Buckwheat
.13 Oats
.14 Rye
.15 Corn, maize
.16 Barley
.17 Millet, sorghum, etc.
.171 Millet
.172 Panic grass
.173 Prosos
.174 Sorghum
For sweet sorghum see 633.62
.175 Broom corn
.176 Shallu
.177 Kafir, milo maize
White kafir, blackhul kafir, red kafir
.178 Durra, Jerusalem corn
Yellow milo, brown durra, white durra, rice corn, white Egyptian corn, Egyptian corn
.18 Rice
.19 Other

.2 Forage crops: grasses

Class here general treatises on forage crops. Divided according to Häckel

.21 Blue grass *Poa*
.22 Orchard grass *Dactylis*
.23 Red top, bent grass *Agrestis*
.24 Timothy *Phleum*
.25 Cereal grasses Divided like 633.1 Cereals
.26 Other cultivated grasses
.261 Bermuda grass *Cynodon*
.262 *Bromus*
.263 Rye grass Lolium
.264 Fescues *Festuca*
.265 Oat grass *Arrhenatherum*
.266 *Paspalum*
.267 *Phalaris*
.27

633.28 Other grasses
Class here only such grasses as hav no specific number
Divided like Hackel in 633.21–.267

.281 *Maydeae*
Zoysicae
Tristegineae
.282 *Andropogonae*
.283 *Paniceae*
.284 *Oryzeae*
Phalarideae
.285 *Agrostideae*
.286 *Aveneae*
.287 *Chlorideae*
.288 *Festuceae*
.289 *Hordeae*
Bambuseae

.3 Forage crops: legumes, etc.

.31 Alfalfa *Medicago*
Black medic, bur clover
.32 Clovers, berseem *Trifolium*
.33 Cowpeas *Vigna*
.34 Soybean *Glycine*
.35 Vetches *Vicia*
.36
.361 Sainfoin *Onobrychis*
.362 Kidney vetch *Anthyllis*
.363 Velvet bean *Mucuna*
.364 Japan clover *Lespedeza*
.365 Beggar weed *Meibomia* *Desmodium*
.366 Sweet clover *Melilotus*
.367 Lupin *Lupinus*
.37 Other legumes
.371 *Sophoreae*
.372 *Podalyrieae*
Genisteae
.373 *Trifoliae*
.374 *Loteae*
.375 *Psoraleae*
Galegeae
.376 *Hedysareae*
.377 *Valbergieae*
.378 *Vicieae*
.379 *Phaseoleae*
.38
.39 Other forage crops

633.4 Root crops

These ar practically all also clast as vegetables in 635.1 and .2 and for convenience of correspondence the same arrangement is followd here: 633 4 divided like 635.1 and 633.49 divided like 635.2

.41 Beet *Beta vulgaris*

See also 633.63 Sugar beet

.416 Half sugar mangel

.417 Mangel and mangel wurzel

.42 Turnip *Brassica rapa*

.425 Hybrid turnip

.426 Rutabaga *Brassica campestris*

.43 Carrot *Daucus carota*

.44 Parsnip *Pastinaca sativa*

.49 Tubers and bulbs

.491 Potato *Solanum tuberosum*

.492 Sweet potato *Ipomaea batatas*

.494 Jerusalem artichoke *Helianthus tuberosis*

.5 Textil fibers, cordage, plaiting, basket, etc.

.51 Cotton *Gossypium*

.52 Flax *Linum*

.53 Hemp *Cannabis*

For other fibers known as hemp, see 633.56–.57. Brown and Indian hemp ar indefinit. For 'true Indian hemp' see 633.567

.54 Jute *Corchorus*

.55 Ramie, China grass *Boehmeria*

.56 Other soft fibers

.561 China jute *Abutilon*

.562 Sunn hemp *Crotalaria*

Bengal, Bombay, Conkanee, false, Konkan, Madras or Salsette hemp or Travancore flax; also incorrectly Dekkan or Ambari hemp. Jubbulpore or Jabbalpur hemp

.563 Ambari or Dekkan hemp *Hibiscus*

Kanoff and Gambo hemp. Dekkan hemp also known in market as Bimlipatam jute

.564 Majagua Paritium *Hibiscus titiaceus*

.565 Olona *Touchardia*

.566 Colorado river hemp *Sesbania*

.567 Canada (or Indian) hemp *Apocynum*

True Indian hemp; also called black Indian hemp

.57 Hard fibers

.571 Manila hemp, Abaca *Musa*

.572 New Zealand hemp *Phormium*

.573 Mauritius hemp *Furcraea*

.574 Bowstring hemp *Sansevieria*

.575 Bromelia fibers

.576 Pineapple fiber *Ananas*

633.577 Agave fibers
1 **Sisal, henequen** *Agave rigida*
2 **Ixtle, istle, tampico** *Agave heteracantha*
Jaumave istle *Agave lophantha*
Tula istle *Agave Lecheguilla;* also *A. univittata, A. caerulescens, A. Kerchoevii*
Palm istle *Palma samandoca, Samuela carnerosana, Palma pita, Yucca treuleana*
3 **Manila maguey** *Agave Cantula*
4 **Aloe fiber**
5 **Maguey fiber** *Agave atrovirens, A. collina, A. Potosina, A. Tequilana, A. vivipara*
6 **Zapupe** " zapupe verde ", " zapupe azul "
.58 Fibers for plaiting, basket and wicker work; ruf weaving
.581 Coir, coconut fiber Cocos
.582 Raffia Raphia
.583 Esparto grass, alfa, halfa Stipa
.584 Hat fibers
Jipijapa plant Carludovica Panama hats
Yaraw or hat palm Inodes
Straw, wheat, rye, barley, rice; in agricultural aspect better clast in 633.1
.585 Rushes and sedges Juncus Cyperaceae
.586 Reeds Arundo
.587 Bamboo
.588 Osier, willow Salix
Other woods, splints, rattan
.59 Fibers for other industrial uses
Filling or stuffing fibers, calking natural fibers: Cuba bast, etc. brush fibers, broom root, paper materials, usually better clast from agricultural standpoint with other uses of the material
.6 **Sugar plants and starch**
.61 Cane *Saccharum*
.62 Sorghum *Andropozon sorghum Brot. S. vulgare Linn.*
.63 Sugar beets *Beta*
.64 Maple *Acer saccharum Marsh*
.65 Palm
.66 Other sugar plants
.68 Starch
Single plants usually better clast from agricultural standpoint with other uses of these plants; e. g. wheat, corn, rice, potatoes, etc.
.7 **Alkaloidal plants**
For those chiefly medicinal see 633.85
.71 Tobacco *Nicotiana*
.72 Tea *Canellia thea Link Thea Linn.*
.73 Coffee *Coffea*
.74 Cacao, coco, chocolate *Thesbroma*
.75 Poppy (opium) *Papaver*
.76 Kola or cola
.77 Maté *Ilex*
Brazil or Paraguay tea, Jesuit's tea, yerba
.78 Chicory, succory *Cichorium*

633.8 Perfumes, spices, condiments, etc.

.81 Perfumery
See also 668.5

.811 Floral: rose, jasmin, violet
.812 Herbal: lavendar, rosemary, geranium, patchouli
.813 Citrin: bergamot
.814 Woods: sandalwood, cedar
.815 Roots: orris, vetiver
.816 Balms and gums: myrrh, benzoin

.82 Flavoring
.821 Vanilla
.822 Mints *Mentha*
.823 Wintergreen *Gaultheria*
.824 Sassafras
.825 Ginger *Zingiber*

.83 Spices
See also 664.5

.831 Allspice
.832 Cloves
.833 Cinnamon
.834 Nutmeg

.84 Condiments
.841 Pepper *Piper*
.842 Red pepper, paprika *Capsicum*
.843 Chili *Capsicum*, specially *c. fastigatum*
.844 Mustard
.845 Capers
.846 Horseradish

.85 Oil producing plants
Usually better clast from agricultural standpoint with the purpose for which the oil or plant is used

.86 Vegetable dyes, dye plants
.861 Yellow
.862 Blue
.863 Red
.864 Green

.87 Tanning material
Usually better clast from agricultural standpoint with the tree or plant from which the material is derived

.871 Sumac Canaigre

.88 Medicinal plants

.89 Other

634 Fruits, orchards, vinyards, forestry

SUMMARY

.1 Pomaceous fruits
.2 Drupaceous "
.3 Citrous "
.4 Minor fruits
.5 Nut "
.6 Palmaceous fruits
.7 Small fruits
.8 Grapes
.9 Forestry

.1 **Pomaceous or pome fruits**
.11 Apple *Pyrus malus*
.12 Crab apple
.13 Pear *Pyrus*
.14 Quince *Cydonia*
.15 Medlar *Mespilus*
.16 Loquat, Japan plum *Eriobotrya Japonica*
.2 **Drupaceous or stone fruits** *Prunus*
.21 Apricot *Prunophora*
.22 Plum *Prunophora*
.23 Cherry *Cerasus*
.24 Racemose cherries: wild cherry, choke cherry, padins, sand cherry
.25 Peach *Amygdalus* or *Prunus Persica*
.26 Nectarin (variety)
.3 **Citrous fruits: orange family. etc.**
.31 Orange *Citrus aurantium*
.32 Varieties
.321 **Trifoliate** *C. trifoliata*
.322 **Mandarin, tangerine, kid glove orange** *C. nobilis*
.323 **Grape fruit, pomelo, shaddock** *C. decumana*
.324 **Kumquat** *C. Japonica*
.33 Citron group *C. medica*
.331 Citron var. *genuina*
.334 Lemon " *limon*
.337 Lime " *acida* or *limetta*
.34 Other
.341 Glycosmis *G. aurantiaca*
.342 Lime berry, bergamot lime *Triphasia trifoliata* or *aurantiola*
.343 White sapota, cochil sapota *Casimiroa edulis*
.36 Moraceous fruits Mulberry family
.37 Fig *Ficus Carica*
.38 Mulberry *Morus*
.39 Bred fruit *Artocarpus incisa*

634.4 **Minor fruits**
.41 Anonaceous fruits, custard apple family
.411 Sour-sop *Anona muricata* or *Asiatica*
.412 Sweet-sop, sugar apple *A. squamosa*
.413 Cherimoya; Jamaica apple *A. cherimolia*
.414 Pond apple; mamon *A. glabra* or *laurifolia*
.415 Custard apple; bullocks hart *A. reticulata*
.418 Northern papaw *Asimina triloba*
.42 Myrtaceous fruits, myrtle family
.421 Guava *Psidium*
.422 Rose apple; jamrosade *Eugenia jambos*
.423 Surinam cherry: Cayenne cherry; pitanga *Eugenia uniflora* or *Michelii*
.43 Sapotaceous fruits, star apple or sapodilla family
.431 Sapodilla, naseberry *Achras sapota*
.432 Marmalade tree or plum *Mammae sapota*, *Lucuma mammosa*
.433 Star apple *Chrysophyllum Cainito*
.44 Anacardiaceous fruits, cashew family
.441 Mango *Mangifera Indica*
.442 Jew plum, Pomme Cythere, sweet Otaheite apple *Spondias dulcis*
.443 Spanish plum *Spondias purpurea*
.45 Ebenaceous fruits; ebony family
.451 Kaki; Japan persimmon *Diospyros Kaki*
.452 Persimmon *D. Virginiana*
.46 Leguminous fruits; bean family
.461 Tamarind *Tamarindus Indica*
.462 St Johns bred; carob; karoub; algaroba *Ceratonia siliqua*
.5 **Nut fruits Nuciculture**
.51 Walnut Juglars
.511 Persian or English walnut *J. regia*
.512 Black walnut *J. nigra*
.513 Japan walnut *J. Sieboldiara*
.518 Butternut, white walnut *J. cinerea*
.52 Hickory nut *Hicoria*
.521 Pecan *H. pecan*
.522 Shagbark or little shelbark hickory *H. ovata*
.523 Big or bottom shelbark hickory *H. laciriosa*
.524 Pignut *H. glebra*

634.53 Chestnut *Castanea*
.531 European chestnut *C. sativa* or *vesca*
.532 American chestnut *C. americana*
.533 Japan chestnut *C. crenata* or *Japonica*
.537 Chinkapin *C. pumila*
.54 Filbert, hazelnut, cobnut *Corylus*
.55 Almond *Prunus*
.551 Almond *P. amygdalus*
.552 Russian almond *P. nama*
.555 Tropical almond *Terminalia Catappa*
.57 Miscellaneous nuts
.571 Litchi, Leechee *Nephelium Litchi*
.572 Ginkgo *G. biloba*
.573 Cashew *Anacardium occidentale*
.574 Pistachio *Pistacia vera*
.58 Peanuts *Arachis hypogaea*
.6 Palmaceous fruits
Palm family and miscellaneous tree fruits
.61 Coconut, coco palm *Cocos nucifera*
.62 Date palm *Phoenix dactylifera*
.63 Oliv *Olea Europea*
.64 Pomegranate *Punica granatum*
.651 Papaw; melon papaw, melon zapote *Carica*
.652 Spanish lime Ginep *Melicocca bijuga*
.653 Alligator or Avocado pear *Persea gratissima*
Aquacata, midshipmans butter
.654 Mammee apple, S. Domingo apricot *Mammea Americana*
.661 Hovenia
.662 Jujube *Zizyphus*
.663 Myrica
.664 Seagrape; shore grape *Coccoloba uvifera*
.665 Pigeon plum *Coccoloba Floridara*
.666 Otaheite gooseberry *Phyl anthus distichus*
.667 Strawberry tree *Arbutus unedo*
.7 Small fruits, bush fruits and herblike fruits
.71 Rubaceous, cane or bramble fruits *Rubus*
.711 Raspberries
1 European 2 Black cap 3 Red
.712 Oriental raspberries, wineberry, Japanese wineberry
.713 Blackberry
.714 Loganberry
.717 Dewberry
1 Northern 2 Southern 3 Pacific

634.72 Ribaceous fruits Groselles *Ribes*
.721 Currants
.722 **Garden or common currant** *R. rubrum*
.723 **Black currant**
1 European *R. nigrum*
2 American *R. Americanum*
3 California *R. bracteosum*
.724 **Buffalo, Missouri, flowering or golden currant** *R. aureum*
.725 Gooseberry
.726 **European** *R. grossularia*
.727 **American** *R. oxycanthoides*
.73 Huckleberry, blueberry, etc.
.731 Blue tangleberry or dangleberry *Gaylussacia frondosa*
.732 Black huckleberry *G. resinosa*
.734 Low or dwarf blueberry *Vaccinium Pennsylvanicum*
.735 Canadian blueberry *V. Canadense*
.736 Low or pale blueberry *V. vacillans*
.737 Swamp blueberry, high huckleberry *V. corymbosum*
.74 Miscellaneous bush fruits
.741 Juneberry *Amelanchies*
.742 Buffalo berry *Lepargyraea argentea* *Shepherdia argentia*
.743 Goumi *Elaeagnus longipes* or *multiflora*
.744 Caraunda Christ'sthorn *Carissa Carandas*
.745 Cranberry bush, high or tree cranberry *Viburnum opulus*
.746 Barberry *Berberis*
.747 Elderberry
.75 Strawberry *Fragaria*
.751 Garden strawberry, pine strawberry *F. chiloensis*
.752 Hautbois strawberry *F. moschata*
.753 Alpin and perpetual strawberry *F. vesca*
.754 Scarlet or Virginia strawberry *F. Virginiana*
.76 Cranberry *Vaccinium macrocarpor*, etc.
.77 Nonwoody or herblike fruits
.771 Musacious fruits *Musa*
.772 **Banana** *Musa sapientium*
.773 **Plantain banana, cooking banana, Adam's fig** var. *paradisiaca*
.774 Pineapple *Ananas sativus*
.775 Cactaceous fruits
1 **Prickly pear, tuna** *Opuntia tuna*
4 **Indian fig** *Opuntia ficus Indica*
7 **Barbados gooseberry, lemon vine, blad apple** *Pereskia aculeata*
.776 Miscellaneous herblike fruits
1 **Cyphomandra; tree tomato** *Cyphomandra betacea*
2 **Ceriman** *Monstera deliciosa*

634.8 Grapes, vinyards
.9 Forestry

635 Garden crops; kitchen and market gardening

SUMMARY

.1 Edible roots, including tubers and bulbs
.2 Tubers and bulbs
.3 Edible leaves or flowers
.4 Greens, pot herbs
.5 Salads
.6 Edible seeds and fruits
.7 Condimental and sweet herbs
.8 Mushrooms, truffles
.9 Floriculture

.1 Edible roots
.11 Beet
.12 Turnip
Usually a field crop. See 633.42
.126 Rutabaga Swedish turnip Turnip-rooted cabbage
.127 Navew, French turnip
.128 Celeriac, turnip-rooted celery
.13 Carrot
.136 Turnip-rooted chervil
.137 Chicory
Better in 633.78
.14 Parsnip
.15 Radish
.16 Salsify, oyster plant, vegetable oyster
.166 Scorzonera, black salsify
.167 Scolymus, Spanish salsify
.2 Edible tubers and bulbs
.21 Potato
.22 Sweet potato, Spanish potato, batata
.23 Yam
.24 Jerusalem artichoke, topinamber
.25 Onion
.26 Other plants of Allium family
.261 Leek
.262 Garlic
.263 Shallot, scallion
.264 Cibol, Welsh onion (French, ciboule)
.265 Cive, chive

635.3 Edible leaves, flowers and stems

.31 Asparagus
.32 Artichoke
.327 Cardoon, chardoon
.33 Sea kale
.34 Cabbage
.346 Kale or borecole
.347 Collards
.348 Kohlrabi
.35 Cauliflower
.356 Broccoli
.36 Brussels sprouts
.4 Greens
.41 Spinach
.42 Chard, sea-kale beet, Swiss chard
.43 Orach, French spinach
.44 Mustard
.45 Sorrel Dock
.46 Dandelion Purslane (pusley)
.48 Rubarb
.5 Salads
.51 Bitter salads
Dandelion. See 635.46
Cardoon. " 635.327
.52 **Lettuce** *Lactuca sativa*
.53 **Celery** *Apium graveolens*
.54 **Chicory or succory** *Cichorium intybus*
Also used as pot herb and root
.55 **Endive** *Cichorium endivia*
.56 Piquant or warm salads
Class any species or variety with its genus; e. g. bitter *cress, cardamins amara* with 635.562
.561 **Water cress** *Nasturtium officinale*
.562 **American water cress** *Cardamine rotundifolia*
.563 **Garden cress** *Lepidium sativum*
.564 **Winter cress** *Barbaria vulgaris*
.565 **Swine cress** *Senebiera coronopus*
.566 **Indian cress** *Tropaeolum majus*
For mustard see 635.44
.57 Neutral salads
Lamb's lettuce, corn salad, fetticus

635.6 Edible seeds and fruits

.61 Melons

.611 Muskmelon: cantaloup, nutmeg, winter, etc.

.615 Watermelon: preserving or " citron "

.618 Zit kwa, wax gourd

Chinese preserving melon, Chinese watermelon

.62 Squashes

.621 Summer or bush squashes

Crooknecks, scallop or pattypan, pineapple

.622 Fall and winter, or longrunning squashes

Canada crookneck, Hubbard

.623 Vegetable marrow

.624 Pumpkins

.627 Luffa, rag gourd, dishcloth gourd, vegetable sponge

.63 Cucumbers Gherkins Martynia

.64 Tomato

.646 Egplant, guinea squash, aubergine

.647 Physalis, husk tomato, strawberry tomato

.648 Okra or gumbo

.65 Beans

.651 Broad bean

.652 Kidney bean: garden, snap and string bean; haricots

.653 Lima or sugar bean

.654 Dolichos

.655 Soy or soja bean See 633.34

.66 Peas

.667 Chick pea *Cicer arietinum*

.668 Lentils *Lens esculenta*

.67 Sweet corn

.677 Pop corn

.7 Condimental and sweet herbs

For the regular condiments of commerce see 633.84 and 664.5

.71 Seasoning leaves and flowers

.72 Garden mint, spearmint

.74 Flavoring for pickles, vinegar, etc.

Dil, tarragon, samfire, costmary

.75 Seeds for flavoring

Anis, coriander, carraway

.76

.77

.78 Garnishes: parsley, leaf chervil

.8 Mushrooms, truffles

.9 Floriculture

636 Domestic animals

.08 Zootechny

The breeding and keeping of animals in domestication

SUMMARY

.081 Selection Economics
.082 Formation of stock, races, breeding
.083 Care
.084 Feeding
.085 Food; general questions
.086 Foods; divided like 633
.087 Other foods
.088 Utilization and training
.089 Hygiene Diseases

081 Selection Economics, etc.

1 Selecting and acquiring stock

11 **Capture**

Of wild animals and of domesticated animals allowd to run wild.
" Round up " of western ranches

111 Capture by snares, traps, nets, etc.
112 " " wepons, guns, etc.
113 " " help of other animals, dogs, horses, ferrets, hawks, etc.

12 **Purchase Original cost**

13 Barter Horse trade

14 Standards of excellence Points

15 Soundness Imperfections Blemishes

16 Estimating age

2 Brands and branding and other marks of ownership

28 **Catalogs of brands**

3 Stock farms Ranches

31 **Descriptions of individual farms**

Alfabetic

6 Finances and accounts

7 **Expenses**

71 Supplies, food, etc.

73 Wages

75 Insurance

8 **Returns, yield, profit**

81 Weight tables

87 Stock farm catalogs

88 Catalogs of sales

636.082 Formation of stock
Races, breeding, heredity, etc.

1 Character of herd, flock, colony, etc.

11 **Species, races, breeds, strains; heredity, variation**

2 Herd books, stud books, flock books, etc.

3 Composition of herd, flock, colony; sexes
Including notes and articles about the different kinds

31 **Male**

32 **Female**

33 **Neuter** (of bees)

34 **Castrated male** **Gelding**

35 " **female**

36 **Young animals**

37 Males

38 Females

4 Breeding Reproduction

41 **Breeding in and in**
Line breeding. Animals closely related by blood

43 **Cross breeding**

431 Hybrid
Individuals of different species

432 Métissage
Individuals of different races

44 **Choice of parents**

45 **Generation**

451 Sexual excitement: heat, rut

453 Sexual union

454 Impregnation
Fusion of male and female element

46 **Laying of egs**

461 Nests

47 **Incubation** **Hatching**

471 Natural

474 Artificial Incubators

.083 Care of animals

1 Bilding and installation
Stalls, boxstalls, pens, nests

2 Care of stables or houses
Clenliness, bedding

3 Care of animals
Grooming, clipping

37 **Special care of young**
Brooders 636.5

4 Care of feet Shoeing

5 Care of animals outdoors
Shepherds, watch dogs, etc.

6 Acclimatization

61 **Protection from cold: blankets**

62 " " **heat**

66 " " **wind and rain**

7 Care of harnesses and accouterments

636.084 Feeding
- 1 Feeding of young
  - 11 **Suckling**
  - 12 **Weaning**
  - 13 **Hand or artificial feeding**
- 2 General methods of feeding
  - 21 **In stables, houses, etc.**
  - 22 **In pasture**
    - 23 Mountain pastures, ranches
  - 31 **Special provisions: water. salt, etc.**
- 4 Ordinary, rational feeding
  - 41 **Rations Amount and proportion**
  - 42 **Kind and times of feeding**
  - 45 **Substitutions Variety**
- 5 Feeding for special purposes
  - 51 **For breeding time**
  - 52 **For increast production: milk, egs, etc**
  - 53 **For work**
  - 55 **For fattening**
    - 56 Forced feeding, cramming

.085 Food
- 1 Composition
- 2 Nutritiv value
- 3 Food experiments
- 4 Commercial value
- 5 Different kinds of food
  - For individual foods see 638.086 and .087
  - 51 **Fresh or green fodder**
  - 52 **Ensilage**
  - 54 **Dry fodder**
    - Hay, straw, grains
  - 57 **Prepared foods**
    - Industrial residues Cakes of oily grain or fruit
- 6 Preparation and use of food
- 9 Adulterations of foods for animals

.086 Foods
- Divided like 633
  - 13 **Oats**
  - 15 **Corn**
- 2 Forage crops, hay
  - 25 **Straw**
    - 255 Cornstalks
  - 32 **Clover**
  - 41 **Beets**

636.087 Other foods
- 4 **Fruits**
  - Divided like 634
- 5 **Garden crops**
  - Divided like 635. Use only for material not coverd by subdivisions of 633
- 6 **Animal food**
- 7 **Mineral foods: salt, condiments**

.088 Utilization and training of animals
- 1 For breeding purposes
- 2 For work
- 3 For production of food: meat, egs, etc.
- 4 For animal products
  - Wool, skins, fethers, etc.
- 6 Breaking, training, etc.
  - 61 **To saddle, etc. for carrying purposes**
  - 62 **To harness, for work**
  - 66 **Special training**
    - 661 Carrying messages
    - 662 Hunting

.089 Hygiene, diseases, etc.
- Hygiene is usually better clast 614.9, and Diseases 619
- 1 Anatomy
- 2
- 3 Hygiene
- 5 Remedies, materia medica
- 6 Diseases
- 7 Surgical operations

.1 **Horse**
- .11 Oriental horse
  - Arabian, Persian, Tartar, Turkish, Barb
- .12 Speed horse, race horse, light type, ' hot blooded '
- .121
- .122 English thorobred or running horse
- .127 Other European
  - 1 **Russian Orloff trotters**
- .128 American trotter or pacer
  - 1 **Morgan**
- .13 Saddle horse
  - Hunter; military (charger, cavalry horse, etc.), American saddle, Kentucky saddle, cob, park hack, palfrey

636.14 Coach or carriage horses
Harness horse
.142 English coach
1 **Cleveland bay**
2 **Yorkshire coach**
3 **Hackney**
.143 German coach
East Prussian or Trakehner, East Friesland, Rhenish Prussian, Mecklenburg, Schleswig, Hanoverian, Oldenburg, Holstein
.144 French coach, ' demisang '
.145 Italian: Corsican
.15 Draft horse, cart horse, hevy type, ' cold blooded '
.152 English
1 **Clydesdale**
2 **Suffolk punch or draft**
3 **Black or shire draft**
.154 French and Belgian
1 **Norman, Percheron**
2 **Ardennais**
3 **Boulonnais**
4 **Breton**
5 **Nivernais**
8 **Belgian draft, Flanders dray, Flemish horse**
.158 American draft
Conestoga
.16 Ponies
.161 Ponies for special purposes: polo
.162 Scotch, English and Welsh
1 **Shetland**
2 **Galloway**
4 **Exmoor**
5 **Dartmoor**
6 **New Forest**
9 **Welsh**
.168 American
Mustang, bronco, Indian pony
.18 Allied animals
.182 Ass: jackass, donkey, burro
Asiatic, Catalonian, Italian, Maltese
.183 Mule, hinny
.184 Zebra, quagga, etc.
.185 Zebrule, zebroid

636.2 **Cattle Greater ruminants**

May be divided like 636.081–.089, but for utilization use .21

.21 Uses

Subdivide like 636.088 See note above

.22 English cattle

.221 Old stocks

Forest cattle, wild white, Chillingham

.222 Beef breeds

1 **Short horns**

2 Durham

3 Teeswater

4 Lincolnshire

5 Red shorthorn

6 **Hereford whitefaced**

7 Polled Hereford

8 **Sussex**

.223 Scotch, Welsh and Irish beef breeds

1 **Aberdeen Angus**

Angus doddie, Buchan humblies, polled Aberdeen

2 **Galloway**

Blue gray

3 **West highland: Kyloe**

6 **Black Welsh**

.224 Dairy breeds

1 **Channel iland cattle**

2 Alderney

3 Jersey

4 Guernsey

.225 **Scotch and Irish dairy**

1 Ayrshire

2 Dunlop

3 Cunningham

6 Kerry

Dexter Kerry, Dexter shorthorn

.226 Dual purpose breeds

1 **Devon**

North Devon, Rubies, South Devon

2 **South Hams**

Hammers

3 **Polled Durham**

4 **Red polled**

5 Norfolk

6 Suffolk

7 East Anglian

8 **Longhorn (English)**

Dishley

636.23 German, Dutch and Swiss cattle
.232 Beef breeds
.234 Dairy breeds
1 **Holstein**
2 **Holstein Friesian**
3 **East Friesian**
4 **Oldenburg**
.235 **Dutch**
1 Dutch Friesian, Netherland, North Holland
4 Dutch belted: Lakenfelds, Lakenvelders, Veldlakers
6 **Danish**
7 Jutland
.236 Dual purpose
.237 **Swiss**
1 Brown Swiss
2 Simmental
3 Bernese
4 Spotted race
.24 French and Belgian
.242 Beef
.244 Dairy
1 **Breton, Brittany**
.245 **Belgian dairy**
1 Flamande, Flemish
2 Rosenstein
.246 Dual purpose
1 **Norman**
2 Cotentin
.27 Other European
.271 Russian
Kolmogorian
.28 Other countries
.282 American beef breed
1 **Longhorn, Texas steer**
.283 American dairy breed
1 **American Holderness, Holderness**
2 **French Canadian, Quebec Jersey**
.29 Allied animals
.291 Brahmin sacred cattle; zebu
.292 Bison family
1 **Bison; American buffalo**
2 **Cattalo**
Hybrid of bison and cow
3 **European bison**

636.293 Buffalo or water buffalo *Bubalus*
Bhains, mhains, arna, arni (Hindu)
Moonding (Sudan)
Karbo or Karbon (Malay)
Carabao (Philippines)

.294 Deer, reindeer

.295 Camel: Arabian, Bactrian; dromedary

.296 Lama, llama, alpaca

.2971 Yak

2 Gayal, gaur

636.3 Sheep, goats Smaller ruminants
May be divided like 636.081–.089, but for utilization use .31

.31 Uses
Subdivide like 636.088 See note above

.32 English breeds

.321 Longwool breeds (coarse wool)

1 **Cotswold**

2 **Leicester**
English Leicester, New Leicester or Dishley, Bakewell's Leicester

3 **Border Leicester**
Halfbred or Leicester-Cheviot or Cheviot-Leicester or Upland Leicester

4 **Lincoln**

5 **Kent or Romney marsh**

6 **Wensleydale**
Bluefaced Wensleydale, Wensleydale longwool, Wensleydale blueface, Teeswater

7 **Devon longwool, Southam nolts, Bampton nolts**

8 **South Devon or South Dum**

9 **Roscommon**

.322

.323 Shortwool breeds
Medium-wool; middle-wool; down sheep; mutton sheep

1 **Southdown, Sussex, Sussex down**
Including Underhill and Upperdown

2 **Hampshire down, improved Hampshire down, Wiltshire brook, Berkshire knot, Wiltshire hornd**

3 **Dorset or West country down, Dorset horn, hornd Dorset**

4 **Oxford or Oxfordshire down**
Before 1859 calld Down-Cotswold

5 **Suffolk down, old Norfolk, hornd Norfolk**

6 **Shropshire down, Morfe common**

.3241 **Dorset and Somerset horn**

2 **Ryeland or Lempster**

3 **Clun Forest, Wicklow (Irish)**

4 **Kerry Hill (Irish)**

5 **Radnor**

636.325 Mountain breeds
- 1 **Cheviot**
- 2 **Blackfaced**
  - Scotch blackface or blackfaced Scotch, Linton Forest, Lammermuir, Tweeddale, blackfaced highland
- 3 **Herdwick**
- 4 **Lonk or Lank** **Lancashire blackfaced**
- 5 **Penistone**
- 6 **Limestone, Limestone Crag**
- 7 **Ruf Swaledale**
- 8 **Shetland, Orkney, Hebrides**
- .3261 **Derbyshire gritstone**
- 2 **Dartmoor**
- 3 **Exmoor** **Exmoor horn**
- 4
- 5
- 6 **Cornwall**
- 7 **Welsh mountain**

.33 German and Dutch breeds Swiss

.331 Low country or marsh sheep
- Hornless and short taild
- 1 **Dutch Texel**
- 4 **Friesian**
  - East and North Friesland, Eiderstedt, Ditmarsh, Butjading, Zealand
- 7 **Northeast German**
  - Vaga, Elbingen

.333 Upland sheep, heath sheep (German heidsnucken)
- 1 **Pomeranian or Polish, Mecklenburg** (Spiegelschaf)
- 2 **Hessian**
- 3 **Bavarian or Zaupel** **Franconian** (Frankenschaf)
- 4 **Rhine**
- 5 **Hanoverian, Münster**
- 6 **Styrian or Carinthian**

.34 French and Flemish breeds

.342 Central plateau breeds
- 1 **Auvergne**
- 2
- 3 **La Marche**
- 4
- 5 **Limousin**
- 6
- 7 **Saintonge**

.344 Loire basin and north France breeds
- 1 **Berrichonne** (Crevant, Cher, Indre)
- 2 **Solognote** (Sologne)
- 3 **Comtoise** (Franche-Comté)
- 4 **Ardennes** (Poitou)
- 5 **Percheron** (Perche)
- 6 **Angevin** (Anjou)
- 7 **Cotentin**
- 8 **Bretagne**
- 9 **Charmoise** (Loir et Cher)

636.346 Pyrenese breeds
- 1 **Basquaise**
- 2 **Béarnaise**
- 3 **Landaise**
- 4 **Gasconne**
- 5 **Lauraguaise**
- 6 **Lot**
- 7 **Albigeois**
- 8 **Aveyron**
  - Varieties: Larzac, Lacaune, Olempe, Cevennes, Causse
- 9 **Barbarins**
  - Varieties: Millery, Lahune, Marthold

.35 Italian
- Neapolitan: long, broad or fat taild Bergamasker; Paduan; Italian or Sardinian, mountain

.36 Spanish breeds Merinos, etc.
- .361 Escurial or Estramadura
- .362 Guadaloupe
- .363 Pavlar
- .364 Infantado
- .365 Nigretti
- .366 Other Spanish
  - Aguirre, Atwood, Montares, Leonese, Churra
- .367 Other European merino breeds
  - 2 **British**
  - 3 **German**
    - 31 Prussian
    - 32 Hanoverian
    - 33 Saxon
    - 34 Silesian
    - 37 Hungarian
  - 4 **French: Rambouillet**
  - 8 **Danish, Swedish, etc.**
- .368 Other merino breeds
  - 1 **American**
  - 2 **Delaine**
  - 3
  - 4 **Australian**

.37 Other European sheep
- .371 Russian
- .372 North Europe: Scandinavia, Iceland, Faroe ilands
  - Ovis brachyura borealis
- .373 Southeast Europe
  - Long tail, broad or fat tail: Macedonian or Clementine
  - Long tail and small tail, mixt wool: Cretan, Macedonian, Wallachian, Moldavian or Hungarian

636.38 Other countries

.385 Asiatic

Short tail, nornd: Tartar, Kalmuck, Kinghir, Buriat fat rump (ovis steatopyga); stump tail (ovis brachycerca). See also 636.386
Short tail, hornless: Mecca fat rump, Chinese (ongtischaf), Persian
Long tail, broad or fat tail, dumba (ovis platyura): Syrian, Anatolian, Karamanian or Levant, Persian, Bokhara
Arabian or Bedouin
Kabardian or Circassian

.386 African sheep

Long tail, broad or fat tail: Egyptian, Tunisian, Berber or Algerian
Long and small tail, hevy fleece: Bischarin (Nubian), dinka (sheep with manes, ovis africana), high leg or Guinea sheep (Kongo), Morvan (longipes), Libyan or Fezzan, Zunu or Angola
Stump tail (ovis brachycerca). See also 636.385

.39 Goats

May be divided like 636.081–.089, but for utilization use .391

.391 Uses

Subdivide like 636.088 See note above

.392 British goats

Irish goat, longhaird
English goat, shorthaird

.393 German and Austrian goats

Hartz mt, Hinterwald, Hungarian, Langensalza, Saxony, Schwarzwald, Starkenburg, Westphalian, Wiesental

6 Swiss goats

Alpine or common goat
Blackneckt Valais, Schwarzhals or Schwarztal, Glacier, saddle Guggisberg

7 **Toggenburg**

8 **Appenzell or flat-heded**

9 **Saanen or Sarnen, Gessenay or Gassenay**

.394 French goats: Tarentaise

.395 Italian goats: Maltese

.396 Spanish goats

Hornless, Granada, Malaga
Shorthaird reds, Spanish-Maltese

.397 Other European goats

.398 Other goats

1 **American goats**

5 **Asiatic goats**

Tibet (China), Angora (Persia), Syrian

54 India

Kashmir (or shawl Tibet), Nepal (variety of Nubian), Surats, Tarh (shaggy brown Himalayan goat)

6 **African goats**

Abyssinian (or Nubian), Guinea

62 Egypt

Egyptian (or Nile), Theban, Zaraibi

636.4 Swine

May be divided like 636.081–.089, but for utilization use .41

.41 Uses

Subdivide like 636.088. See note above

.42 English breeds

.421 Small black breeds

Use also for small breeds in general

1 **Essex**
2 **Sussex**
3 **Suffolk**

.422 Small white breeds

1 **Windsor**
2 **Small Yorkshire**
3 **Coleshill**

.424 Large white breeds

1 **Yorkshire**
2 **Lancashire**
3 **Cumberland**
4 **New Leicester**
5 **Lincolnshire**
6 **Suffolk**

.426 Medium colord breeds

Use also for medium breeds in general

1 **Black Berkshire**
2 **Red Tamworth**
3 **Red Berkshire**

.427 Medium white breeds

1 **Middle Yorkshire**
3 " **Suffolk**

.43 German and Dutch breeds

.431 Lowland breeds Southern Germany

Use this also as general number for short-ear swine

Bavarian	Franconian	Halle	Suabian
Düsseltaler	Glanschwein	Luzern	Wurtemberg

.432 Hungarian short ear

Carpathian, Bergschlag
Bakonyer or Bakouner
Szalontaer

.433 Western and Northern Germany

Use this also as general number for large-ear. Large Polish, Meissner

.434 German marsh swine, large ear

Danish ilands	Holland	Mecklenburg	Schleswig-Holstein
Hanover	Jutland	Oldenburg	Westphalia

636.44 French

.441 Large-ear French Celtic breed
- Northeastern France
- Champagne

.443 Northwestern France
- Breton
- Norman Augeronne
- Craonnoise
- Mancelle
- Angevin

.445 Southwestern France Spanish origin
- French Perigord
- Quercy
- Limousin
- Gasconne
- Béarnaise

.447 Southeastern France
- Provence
- Roussillon
- Languedoc
- Bressane

.449 Swiss
- Grison Bündener

.45 Italian, Neapolitan, Maltese, Tuscon, Romagnole

.46 Spanish and Portuguese

.47 Other European

.471 Curly bristles Southeastern Europe

.472 **Serbian Syrmian**
- Mongolicza or Mangalicza
- Curly-bristle Hungarian
- Milos
- Sumadia or Obrenovics

.473 **Croatian**

.474 **Rumanian, Moldavian**
- Anatolian
- Albanian

.475 **Russian**

.48 Other countries

.481 American breeds

.482 **Poland-China**

.483 **Red Jersey or Duroc-Jersey**

.484

.485 Asiatic: Chinese, Tonkin, Siamese

.486 Africa
- Cape breeds, Sennaar, Guinea

.489 Oceania
- Papuan

636.5 Poultry

May be divided like 636.081–.089, but for utilization use .51

.51 Uses

Subdivide like 636.088; e. g. 636.513 Capon. See note above

.52 English breeds

.521 Dorking

.522 Sussex or Surrey

.523 Kent

.524 Orpington

.525 Redcap

.526 Other English

Lincolnshire buffs

.527 Scotch grays

.528 Other Scotch

Scotch bakies or dumpies Jumpers Dumbartonshire

.53 German and Dutch breeds

.531 Hamburg

.532 Lakenfelder

.533 Ramelsloher

.536 Styrian

.537 Bohemian

.538 Other

East Friesian, Westphalian, Thuringian, Alsatian, Nassau, Augsburg, etc.
Magyar

.54 French and Belgian breeds

.541 Crèvecoeur

.542 Houdan

.543 La Flèche Le Mans Caux

.544 La Bresse, Louhans, Bourg, Bourbourg, Barbézieux, Coussade, Courtes-pattes

.545 Faverolles

.546 Gournay, Pavilly, Caumont

.547 Other

Coucou, French cuckoo, Mantes, Estaires

.548 Belgian breeds

Campenes or Campines, or Brackel; Brabant. Huttegen
Bredes or Guelders or Guelderlands. Coucou de Malines. Bruges

.55 Italian breeds

Use also as general number for Mediterranean breeds

.551 Leghorn

.552 Paduan or Polish (in England)

Also called Pompadour, Padouse, Polanders

.553 Polverara

.554 Ancona

636.56 Spanish breeds
.561 Castilian
.562 Minorcan
.563 Black Spanish
.564 Blue Andalusian
.565 Prat
.57 Other European
.571 Pavloff (Russian)
.572 Siberian fetherfooted
.573 Sultans
.58 Other countries
.581 American breeds
1 **Dominican, Dominique, Dominiker**
2 **Jersey blue**
3 **Bucks county**
4 **Java**
5 **Buckeye**
6 **Winnebago**
.582 **Plymouth rock**
.583 **Wyandotte**
.584 **Rhode Island red**
.585 Asiatic breeds
1 **Cochin China** **Shanghai**
2 **Brahmaputra** **Brahma, Gray Chittagong**
3 **Langshan**
4 **Malay**
7 **Japanese fowls**
White Yokohama
Phoenix
.587 Special varieties
1 **Bantams**
11 Common
12 Game
13 Polish
14 Asiatic
15 Japanese
.588 Other
1 **Game**
11 Azeel or Aseel
12 English game
13 Sebright (a bantam only)
14 Cornish Indian, or Indian (in England), or Cornish (in America)
15 Malay
2 **Deformd**
Rumpless or tailless or Wallikiki; Turkey necks, naked necks, Gillikins, nude
3 **Silkies**
4 **Frizzles**

636.59 Other fowls
.592 Turkey
1 **Original species**
11 American, or N. American 'original' or wild turkey (meleagris Americana)
12 Mexican wild turkey (meleagris Mexicana)
13 Honduras wild turkey (meleagris ocellata)
14 Crested turkey
2 **Bronze**
English Cambridge turkey
3 **Narragansett**
4 **Buff**
5 **Slate or Austrian whites** (in England)
6 **White, or White Holland** (in America)
7 **Black, or Norfolk or black Norfolk** (in England)
8 **Bourbon red, or Bourbon butternut, or Kentucky red**
.593 Guinea fowl
.594 Fezant
.595 Peacock
.596 Pigeons
1 **High class fancy pigeons**
11 Pouters
12 English carrier
13 Runt
14 Barb
15 Shortface tumbler
2 **High class toy pigeons**
21 Fantail
22 Owls
23 Turbits
24 Frilbacks
25 Jacobins
26 Trumpeters
27 Scandaroons
28 Florentine amalgamated, Hen
31 Dragoon, Horseman
32 Priests
33 Brunswick
34 Oriental frils
35 Homers, white homing, Antwerp
4
5 **Other toy pigeons**

636.597 Ducks
- 2 **English breeds**
  - 21 Aylesbury
  - 22 Indian runner
  - 23 Blue Swedish
- 4 **French breeds**
  - Rouen, colord Rouen, also cald Rhone and Roan
- 8 **Other countries**
  - 81 American
    - 82 Cayuga, black Cayuga
      - Also called Big black and Lake duck
    - 83 Muscovy
      - Colord Muscovy, Musk duck, white Musccvy
    - 85 Asiatic: Pekin, white Pekin
      - By Chinese cald Mandarin

.598 Goose
- 3 **German: Emden, white Emden**
- 4 **French: Toulouse, gray Toulouse**
- 7 **Sebastopol**
- 8 **Other countries**
  - 81 Wild or Canadian Gray wild
  - 85 Chinese: white, brown
  - 86 African
    - Also cald Indian, gray African and Guinea
  - 87 Egyptian Colord Egyptian
  - 89 Spurwing (Australia)

.6 Birds

For poultry see 636.5. Here are clast domesticated birds useful for plumage or work, and pet birds

.61 Birds useful for their fethers
- For geese see 636.598

.611 Ostriches

.62

.68 Song and ornamental birds

.681 Swan

.686 Cage and aviary birds

.7 Dogs

May be subdivided like 636.081—.089, but for uses see 636.72—.765

.71 Breeds

.72 Utility dogs

.73 Draft and other work dogs

.74 Watch dogs, herd dogs

.75 Hunting and sleuth dogs Carrier dogs

.76 Pet dogs

.765 Toy dogs

.77 Dogs in art
- See also 758 Animal painting

.78 Dogs in literature
- Essays, stories, biografy, etc.

.79 Other topics

636.8 **Cats**
.81 Breeds
.87 Cats in art See also 758 Animal painting
..88 Cats in literature
Essays, stories, etc.
.9 **Other: rabbits, guinea pigs, etc.**

637 Dairy and dairy products

.1 **Milk**
.11 Economics
.113 Dairy farms
Description of individual farms
.116 Finances and accounts
.117 **Expenses**
.118 **Returns**
.1185 Sale price
.12 Production and composition
.121 Choice of dairy cows
.122 Special food
.124 Milking
Milk pails, milk stools, milking tube
.125 **Artificial milkers**
.127 Composition of milk
1 **Fat**
2 **Lactose, milk sugar, lactin; galactin**
3 **Casein**
6 **Milk testing**
Creamometer Lactobutyrometer Lactodensimeter Lactoscope
Galactometer Lactocrite Lactometer Percent tube
7 **Milk analysis**
.13 Care of milk
.131 Bildings, dairies
.132 Installation, apparatus
1 **Refrigerating apparatus, milk cooler**
2 **Heating apparatus**
3 **Pasteurizers**
7 **Receptacles Storage Milk pans**
.133 Preservation
1 **Chilling**
2 **Heating**
3 **Pasteurizing**
.135 Transportation and sale of milk
Milk cars, milk wagons, bottles, cans

637.14 Utilization Consumption
.141 Whole milk
.142 Condenst milk
.143 Milk powder
.144 " farina
.145 " sugar
.146 Fermented milk Kumis
.147 Skim milk
.148 Cream
.16 Accidents Alterations Diseases Impurities Adulterations
.17 Milk other than cow's milk
.171 Mare's milk
.172 Ass's "
.173 Ewe's "
.174 Goat's "
.18 Substitutes for milk
.181 Vegetable milks
.2 Butter
.21 Economics
.216 Finances and accounts
.217 Expenses
.218 Returns
.2185 Sale price
.22 Composition
.221 Character and properties of butter
.222 Constituents of butter
.223 Grades of butter
.225 Butter testing
.227 " analysis
.23 Preparation of butter
.231 Bildings Creameries Butter factories
.232 Installation, apparatus
1 Separators
11 Skimmers
12
13
14 Centrifugal separators
2 Churns
3 Washers
4 Workers
8 Presses, molds, stamps, etc.

637.233 Butter making
- 1 **Separating cream**
- 2 **Churning**
- 3 **Washing**
- 4 **Working**
- 5 **Salting**
- 6 **Pasteurization**
- 7 **Ripening**

.235 Transportation and packing
- 1 **Methods of packing** **Receptacles**

.24 Utilization Consumption
- **Including residues**

.247 Buttermilk

.26 Alterations Diseases Impurities Adulterations

.27 Renovation

.28 Substitutes for butter

.281 Oleomargarin

.282 Butterin

.3 Cheese

.31 Economics

.316 Finances and accounts

.317 **Expenses**

.318 **Returns**

- 5 Sale prices

.32 Character and composition

.321 Character and properties

.322 Constituents

.323 Grades of cheese

.325 Cheese testing

.327 Cheese analysis

.33 Cheese manufacture

.331 Cheese factories

.332 Installation, apparatus
- 1 **Boilers**
- 2 **Curd mills**
- 3 **Presses**

.333 Cheesemaking
- 1 **Curdling** **Rennet**
- 2 **Refining**
- 3 **Pressing**
- 4 **Heating**
- 8 **Putting in molds**

.335 Transport, packing, etc.
- 1 **Packing**
- 2 **Storage**

637.34 Utilization Consumption
Including by-products
.345 Milk sugar
.347 Whey butter
.35 Varieties
.351 Rennet cheese from cow's milk
.352 Soft cheese, fresh, unripend
.353 " " ripend
2 English
3 German: Limburger
4 French: Brie, Camembert, Neufchatel
5 Italian: Gorgonzola
.354 Hard cheese
2 English: Cheshire, Cheddar, Sage, Stilton
3 German, Swiss, etc.: Emmental, Edam
4 French: Gruyère, Gex
5 Italian: Parmesan
6
7 Other European
.355 Rennet cheese from other than cow's milk
1 From sheep's milk: Roquefort, Texel
2 " goat's "
3 " reindeer "
4 " buffalo "
.356 Sourmilk cheese from cow's milk
Cottage cheese, Dutch cheese, pot cheese, smear-case
.357 Sourmilk cheese from other than cow's milk

638 Bees, silkworms, etc.
Insects whose products ar useful for food or manufactures
.1 Bees, honey, wax
.2 Silkworms
.3 Cochineal

639 Hunting, trapping, fish culture, etc.
See also 799 for sporting side
.1 Hunting, trapping, game preservs, etc.
Fox, skunk, etc. farms
.2 Fishing as an occupation
.3 Fish culture Pisciculture
Including turtle, terrapin, frogs
.4 Oysters and other mollusks Shelfish
Oyster, clam, mussel, snail, pearlfishing, scallop, quohog, cockle, winkle, periwinkle
.5 Crustaceans
Lobsters, crabs, crawfish, shrimps, prawns
.6 Other sea food
Sea urchin, echinus
.7
.8 Leeches

640 Domestic economy

Public as well as private household administration covering work of housekeeper, matron, steward, janitor, etc. in hotels, clubs, apartments, boarding houses, schools, restaurants, factories, offis and other commercial bildings, churches, theaters, railway stations, ships and other public gathering places.
For economics of consumption, including standards of living, see 339; for care of library bildings see 025.9. Numbers for allied subjects in army and navy will be provided under military and naval science. See also 331.83 Food, clothes and shelter of laboring classes

SUMMARY

641 **Food, cookery**
642 Serving entertaining
643 **Shelter, house, home**
644 Heat, light, ventilation
645 Furniture, furnishings Decoration
646 **Clothing, toilet**
647 **Administration, household management**
648 Sanitary precautions, cleaning
649 Nursery, sickroom

.1 **Theories, utility, etc.**
.2 **Compends**
.3 **Dictionaries, cyclopedias**
.4 **Essays**
.5 **Periodicals**
.6 **Societies**
.7 **Study and teaching**
Schools of housekeeping, experiment stations. Investigations of home conditions. For cooking schools see 641.07
.71 Schools and experiment stations
See 630.7 Agricultural schools, farmers institutes; 630.6 Farmers associations, granges, etc; 371.42 Manual training courses; 371.6764 Laboratory equipment for home economics courses; 375.64 Place in curriculum; educational values. 640.711–.74 may be used for keeping all phases of the subject in 640
711 College and university courses and departments
Schools of college grade
.712 Secondary courses; high school
.713 Elementary courses; below high school
714 Extension work
Courses for special needs: women's clubs, farmers' wives, etc.
.72 Research work: experiment stations, graduate courses
For Sage foundation see 306
73 Normal courses, teachers institutes, etc.
.74 Exhibits Museums
.9 **History**

641 Food Cookery

For physiology of nutrition, see 612.39; for dietetics and dietary standards, 613.2; for food values, 641.1

.01 Gastronomy Epicurism
Plesures of eating, esthetics of cookery, epicures (gourmets). For gluttony, see 178.91 and 613.25
.02 Compends
.03 Dictionaries, cyclopedias
.04 Essays, addresses, lectures
05 Periodicals
.06 Societies
.07 Study and teaching Cooking schools, classes and clubs
.08 Polygrafy
.09 History and description
Divided like 930–999. Including foods characteristic of different peoples, but for preparation of specific dishes (i. e. recipes) peculiar to special countries see 641.59

641.1 Food chemically considerd Food values Tables

For methods of chemical analysis see 543.1; for adulterations see 614.3; for commercial preparation or manufacture see 664; for physiology of nutrition see 612.39; for dietetics see 613.2

612.39 treats of physiologic effect of different kinds and quantities of foods from purely scientific point of view, without regard to benefit or injury

613.2 treats of food requirements in special conditions of age or disease and of the beneficial or injurious effects of different kinds of foods

641.1 translates scientific facts into familiar terms for cook and housekeeper, treats of the required amount of the different constituents and their proportion as found in various foods

.11 Organic food constituents

.12 Proteids or nitrogenous foods

Meat, egs, nuts, legumes, etc. See also 612.398

.13 Carbohydrates or nonnitrogenous foods

Vegetables, cereals, fruits, sugar See also 612.396

.14 Fats, oils

See also 612.397

.15 Inorganic food constituents

.16 Water

.17 Salts, mineral or ash constituents

.3 Animal and vegetable foods

Class here also works dealing both with food material and its preparation

Subdivided like 630 e.g. 641.33, Cereals, 641.34 Fruits

.31 Prices Relativ cost

Quality and other factors in buying for table

.4 Food preservation Markets

Subdivide like 664 (not yet completed)

For commercial methods see Chemic technology 664.8–.9; for transportation see 656 (subdivision not completed)

.5 Cookery Cook books

General recipes, specific directions, in whatever form (books, cards, etc) for preparing food

Distinction between 612.39, 613.2 and 641.5: in 641.5 class cook books and collections of recipes in which physiologic and hygienic effects of foods (if treated at all) are secondary; in 613.2 class dietaries and selection and preparation of food for special systemic conditions, with recipes subsidiary or with recipes and diet about evenly balanced; in 612.39 class the scientific study of physiologic effects of various foods, regardless of benefit or injury

See also 641.59 Recipes peculiar to special countries; 641.6 Cookery of specific substances; 641.7 Cookery by specific processes; 641.8 Composit dishes, ices, confectionery, beverages

.52 Brekfast

.53 Luncheon, afternoon tea, supper

.54 Dinner

.55 Economic cookery

.56 Special conditions

Under limitations of age, helth ethical or religious theories, etc.

.562 Children

.563 Invalids and aged Hospital cookery

.564 Ethical limitations

.565 Religious limitations

.566 Seasons and days: Lent, fast days, etc.

.567 Cults: Jews, Buddhists, etc.

641.57 Special situations
Adaptation to large numbers, large variety, and limitations of time, place or appliances
.572 Hotel and restaurant cooking
.573 Army and navy cooking
See also 355
.574 Shipboard cooking
Exclusiv of navy
.575 Camp and travel cooking
.576 **Railway dining and buffet cars**
.577 **Itinerant companies; circuses, etc.**
Methods of feeding large numbers en route or in temporary shelters
.578 **Camp cooking**
.58 Special utensils or fuels
.583 Cooking by oil
Including oil and gas together
.584 **Cooking by gas**
.585 Cooking by alcohol Chafing dish recipes
.586 Cooking by electricity
.587 Cooking by apparatus heated by steam or hot water
.588 Cooking by slowly applied heat
Aladdin ovens, fireless cookers
.59 Cookery of special countries
Class here descriptions of national cookery or recipes for dishes characteristic of special countries or regions
.591 Frigid zone and cold wether
.592 Tropics and hot wether
Divide farther like 930–999, using these numbers preferably only for reference and shelving books under 641.5–.578
.6 Cookery; clast by material
Subdivide like 641.3
.7 Cookery; clast by process
.71 Baking, roasting
.72 Braising
.73 Boiling, simmering Soups
.74 Stewing
.75 Steaming
.76 Broiling, grilling
.77 Frying, sautering
.8 Composit dishes
Ices, confectionery, beverages, etc. See also 641.53 Luncheon, afternoon tea, supper
.81
.82 Entrées Made dishes
.83 Salads
.84 Sandwiches
.85 Confectionery, candies, sweets, bonbons
.86 Ices: ice cream, sherbet, water ices, etc.
.87 Beverages Soft drinks
See also 663 Manufacture of beverages; 663.8 Bartenders manuals, mixing drinks; 613.3 Hygiene of beverages

642 Serving Table Entertaining

See also 395 Etiquet

.1 **Home and family meals**

Brekfast, lunch, dinner, supper. Menus and servis
For tables of chemic constituents and calories see 641.1

.2 **Refreshments**

Afternoon tea, sandwiches, ices, soft drinks

.3 **Camp, picnic and travel lunches**

Lists of supplies; suitable food and dishes; packing and accessories. For recipes see 641.53; for camp cookery see 641.578

.4 **Entertaining**

.41 Private entertainments

.42 Small numbers

Luncheons, dinners, etc.

.43 Large numbers

Receptions, balls, garden parties, etc.

.45 Public entertainments

Banquets, dinners, clambakes, etc. For history of banquets, eating, etc. see 394.1 under Public and social customs. For dining room see 643.4

.48 Toasts Table anecdotes and conversation

See also table talk in literary miscellany

.5 **Table systems for large numbers**

.51 Table d'hôte

.52 American plan

.53 European plan, à la carte

.54 Club: choice of combinations

.55 Harvard Memorial hall plan

Harvard university plan of a fixt charge for essentials, and coupons (alimentary milage) for extras

.56 Mixt plan

Table d'hôte and à la carte; table d'hôte and club

.57 Lunch counters Cafeteria

.58 School lunch rooms

Management, prices, rules for payment, suitable food, freedom of choice, etc. See also 371.716 School meals

.6 **Serving Carving**

Directions for setting table, changing courses, etc.

.7 **Table furnishings**

Linen, china, glass, plate, etc. Preferably clast here, tho possible to be considerd part of 645.66 Dining room furnishings

.8 **Table decoration**

Selection and effectiv arrangement of flowers, colors, lights, centerpieces, etc.

643 Shelter: house, home

For types of houses and plans see 725, 727 and 728; for materials and construction see 690; for heating and ventilation see 628.8, 644 and 697; for lighting, 628.9 and 644.3; for plumbing and gasfitting see 696; for furnishing see 645

.1 Location, site

Social and religious character of neighborhood; accessibility, railways, tramways, etc; nearness to churches, schools, markets, etc. Property increasing or decreasing in value

For hygiene of soil and grounds (city, village or country) see 614.77; for Sanitation, water supply and drainage see 628

.2 Plan

Requirements of house for convenient and economic administration; relativ situation and intercommunication of rooms, amount and direction of light, etc. Special rooms: kitchen, dining room, baths, etc. For detacht rooms and bildings see 728.9; for furnishing see 645; for architectural aspect of structural parts of house (foundation, floors, walls, etc.) see 721; for wall finish see 729.31

.3 Kitchen and its equipment

.31 Plan: situation and arrangement

Relation to rest of house. Housekeeper's requirements as guide to architect. Light. For plans see 728 Residences, and 728.93 Detacht kitchens

.32 Ventilation

Carrying off odors, etc.

.33 Stoves, ranges, cookers, hot tables, fuels

See also 641.58 Cooking by special utensils or fuels

.331 Fireplaces, open fires: turnspit, crane, etc.

.332 Coal and wood Stoves and ranges

.333 Oil and oil stoves

.334 Gas and gas stoves

Including natural gas and acetylene

.335 Alcohol and alcohol stoves Chafing dish

.336 Electricity and electric stoves

.337 Steam heated cooking appliances Steam tables

.338 Slow and fireless cookers

Aladdin oven, Norwegian haybox. See also 641.588

.34 Machinery and laborsavers

.35 Utensils

.36 Pastry room

.37 Storeroom, larder Refrigerators

.38 Care of kitchen and accessory rooms

.39

.4 Dining room and adjuncts

.45 Serving room Butler's pantry

.47 Other pantries

.48 Cupboards

.5 Other special rooms

.52 Baths, lavatories, toilets

.57 Sun rooms, solariums: sleeping balconies, etc.

.58 Laundry

Place in house; for equipment see 648. See also 728.93 Detacht laundries

.6 Laborsavers

General: bells, telefones, tubes, lifts, chutes, door openers and closers, etc. See also special subjects; e.g. 648.52 Vacuum cleaners

.7 Repair

644 Heat Light Ventilation

.1 Systems of heating

Desiderata, relativ advantages for household

For varieties of apparatus and installation see 697; for sanitary engineering see 628.8

.15 Fireplaces Family harthstone

Open fire as household institution; mental influence

Sanitary advantages. See also 749 Artistic fireplaces

.19 Portable heaters: bedwarmers, warming pans, footwarmers

.2 Fuels

Relativ cost; clenliness; labor involved, e.g. hauling and carrying wood or coal and removing ashes. Chimney sweeping

.21 Wood

.22 Coal

.23 Oil, gasoline, etc.

.24 Gas

.26 Electricity

.3 Systems of lighting

Fixtures, fittings, accessories. Class here general discussion covering fixtures and medium, their relativ advantages, etc. For medium alone see 644.31; for fixtures see 644.32

.31 Lighting medium

See also Chemic technology 665

.311 Candles

.312 Oil

.313 Gas

.314 Acetylene

.315 Electricity

See also 621.32 Electric lighting

.319 Other

.32 Apparatus and accessories

Subdivide each, if wisht, like 644.31

.321 Hand lamps Candlesticks

.322 Lanterns

.323 Table, banquet and piano lamps

.324 Standards

.325 Wall lamps Sconces

.326 Chandeliers Ceiling fixtures

.5 Ventilation

Most material belongs elsewhere: hygienic influence of air and light 613.1; sanitary engineering 628.8: ventilating apparatus 607.0. For advantages of fireplaces see 644.15

645 Furniture, carpets, upholstery Decoration

For plan and furnishing treated together see 643
See also hygiene 613.59; architectural decoration 729; design 745; artistic furniture 749; manufactures of cotton, wool, etc. 677

.1 Floor coverings: carpets, rugs

.2 Wall coverings

.3 Window and door furnishings

Screens, shades, awnings, draperies, wether strips

.4 General furniture

See also 645.6 Furnishings for special rooms

.41 Chairs Footstools

.42 Couches Settees

.43 Tables

.44 Desks

.47 Cushions, pillows, etc.

.48 Linen

Removable furniture covers, centerpieces, etc. See also 642.7 Table furnishings; 645.67 Bedroom furnishings

.49 Other

.5 Ornaments

Clocks, vases, pictures, statuary, etc. See also 739 Bronzes, brasses, bricab ac

.6 Special rooms

For kitchen see 643.3; for laundry see 648

.61 Hall and stairs

Hatracks, umbrella stands, etc.

.62 Drawing room Reception room Parlor

.63 Library

.64 Study or offis

.65 Living room

Class here furnishings of room used as combined reception room, library and living room

.66 Dining room

For table equipment and decoration see 642.7–.8

.67 Bedrooms and nursery

Sleeping balconies, open air bedrooms. Beds and bedding, linen, etc. For nursery see also 649

.68 Bathrooms Lavatories Toilets

Fittings and supplies. See also 646.7 Bathing

.69 Other rooms

Music, billiard and ball rooms, picture gallery, servants rooms, cellar, attic

.8 Outdoor space

Verandas, balconies, roof gardens
For sleeping balconies see 645.67. See also 712 Private grounds; 717 Arbors, seats, outlooks

646 Clothing Toilet

See also ethics of dress, display 177.4; ecclesiastic costume 247.7; clothing a related to economics of laboring classes 331.83; bleaching and dyeing 667.1-.3; academic costume 378.29; history of costume 391; clothesmaking 687; hygiene of clothing 613.48; adulteration of textils 614.37; for uniforms and liveries see occupations to which they pertain

.01 Psychology and economics of fashions
Reasons for change of fashions; expense of fashionable dressing

.02 Compends

.03 Dictionaries, cyclopedias

.04 Essays, lectures, addresses

.05 Periodicals

.06 Societies Dress reform societies

.07 Study and teaching

.08 Polygrafy

.09 Adaptation to climate or season

.091 Clothing for cold wether and frigid zones

.092 " " hot " " tropics

.1 Materials Textils and fibers

With reference to domestic use, or domestic use and hygiene combined. For hygiene of materials see 613.481; for general works on textils and fibers see 677 Manufacture of textils

.11 Cotton

.12 Linen Flax Hemp

.13 Wool Mohair, alpaca, camel's hair, rabbit's hair, etc.

.14 Silk

.15 Lether

.16 Fur

.17 Other animal materials: fethers, hair, whalebone

.18 Other vegetable materials

.181 Rubber

.182 Paper

.183 Celluloid

.184

.185 Straw Raffia

.186 Other fibers: jute

.19 Other materials Tinsel, aluminum, asbestos, etc.

.2 Sewing Knitting Crochet

For fancywork see 746

.21 Plain sewing
Running, backstitching, hemming, overhanding, etc.

.24 Mending Darning

.26 Knitting and crochet Tatting
For machineknit goods see 677

.27 Crochet

.3 Clothing divided by wearers

Class here trade catalogs; e.g. Liliputian bazar catalog 646.36
See also 391 Costume; 687 Clothesmaking as a trade

.32 Clothing for men

.34 " " women

.36 " " children

646.4 Clothing divided by purpose

Including directions to amateurs for cutting and making, economic use of material, suitability of material for purpose, adaptation of style to material and purpose, choice of color, etc. For limitation to special kinds of garments see subdivisions below; e.g. patterns or catalogs of underwear 646.42

Subdivisions .42–.48 may be farther divided by 2 Men, 4 Women, 6 Children

.42 Underwear

.43 Outer house garments

Gowns or dresses, coats, trousers, etc.

.45 Outdoor garments

Cloaks, coats, overcoats, shawls, sweters, etc. See also 646.5 Hedgear, millinery; 646.48 Accessories: gloves, mufflers, etc.

.46 Outer footwear

For hose see 646.42

.47 Garments for special purposes

Negligée, lounging or smoking, yachting, bathing, hunting, riding, etc.

.48 Accessories

Neckties, collars, cuffs, belts, aprons, caps, handkerchiefs, gloves, mufflers, garnitures, etc.

For outdoor hedgear see 646.5

.5 Millinery Outdoor hedgear

See 687 Millinery as a business

.52 Hats, caps, etc. for men

.54 Hats and bonnets for women

.55 Other outdoor hedgear for women

Hoods, scarfs, etc.

.56 Hedgear for children

.57 For boys

.58 " girls

.6 Cleaning Drycleaning

For laundry see 648.1

.7 Toilet Cosmetics Bathing

Care of hair, nails, teeth, etc.

For historic customs see 391.5–.6. See also hygiene, 613.4 care of body

647 Household organization and administration

.1 Household accounts; finances, cost

See also bookkeeping 657

.2 Personnel

Intelligence offis, employment bureau

Class here regular employees or assistants; for occasional employees see 647.29. For ethical considerations, see 173.8. See also political economy, 331 Labor and wages

.21 Manager

Superintendent, housekeeper, steward. See also 640.8

.22 Male employees

.23 Female "

.24 Foren "

Races and nationalities: orientals, negroes, etc.

647.25 Indoor servis

Cook, butler, waitress, parlor maid, lady's maid, chambermaid, nurse, laundress, furnaceman, etc. For housekeeper, steward, etc. see 647.21; for outdoor servis see 647.3

.29 Other employees

Emergency help, household registers

.3 Servis outside the house

Coachman, gardener, laborers

.6 Wages Hours Duties

.9 Cooperativ and collectiv housekeeping

Hotels, clubs, apartments, commercial bildings, churches and other public and semipublic establishments or rooms

See also 692.9 Bilding laws; 728 Residence architecture

.91 Tenements

See also 728.1 Tenement house architecture; 331.83 Housing of laboring classes, including tenement house laws; 613.53 Hygiene of tenements

.92 Apartments, flats

See also 728.2 Apartment house architecture

.93 Cooperativ housekeeping

See also 334.4 for economic aspect

.94 Hotels Clubs

See also 728.4 Clubhouse architecture; 728.5 Hotel architecture

.95 Restaurants, tea rooms, etc.

See also 642.5 Table systems for large numbers

.96 Public bildings Institutions

General administration and care affecting helth and convenience of occupants and public; janitor's duties. May be subdivided if wisht like 725; e.g. 647.962 Administration of offis bildings, or 647.9623 if so close classification is preferd

See also 362 Hospitals, asylums, etc; 365 Prisons

.97 Cottage systems

648 Sanitary precautions: laundry, cleaning

.1 Laundry Washing

Private, cooperativ, public. For other processes of clothes cleaning see 646.6 Dry cleaning. For sanitary precautions see 648.5–.6; for pests see 648.7

.11 Administration Accounts

.12 Marking

.14 Equipment

Collectiv: specifications and cost. Class specific appliances with processes to which they belong

.15 Hand equipment

.16 Power " "

.18 Supplies

Soap, starch, bluing, powders, reagents

.2 Washing

Requirements of temperature, ingredients, etc. for different materials Washing directions

.22 Washing by hand

.23 " machine

.25 Starching

.27 Bluing Tinting

648.3 **Drying Driers Extractors Wringers**
Confined or open air Temperature Effect on dyes of freezing, etc.

.4 **Ironing**

.42 By hand Sad irons
Electric and gas heated irons, etc.

.43 By machine Collar and shirt machines, fluting irons, etc.

.45 Power machinery Mangle

.5 **Cleaning and sanitation of house or bilding**
See for sanitary engineering 628; for plumbing 696; for dry cleaning 646.6; for chimney sweeping 644.2

.52 Sweeping and dusting
Floors, walls, moldings, furniture; implements, vacuum cleaners, etc.

.54 Washing
Porcelain, glass, windows, mirrors, paint, including table ware, bricabrac and fixtures. For washing textils see 648.2

.55 Polishing
Silver, knobs, scutcheons, pipes and other metals

6 **Disinfecting**
Waste pipes, traps, etc. Household disinfectants. See also 649.8 Care of sickroom; and public helth, 614.48 Disinfecting apparatus

Pests; traps, poisons, insectifuges

649 Nursery Sickroom
This provides for persons requiring special adjustment of household administration: children and invalids

.1 **Care of children**
See also 136.7 Child study; 173.5 Duties of parents

.2 Rooms Nursery

.3 Food
See also 613.22 Diet of infants; 641.5 Cookery for children

.4 Clothing and care of body
See also 646.36 Childrens clothing, outfit and making; 646.4 Clothing for various purposes; 613.4 Hygiene of bathing and clothing

.5 Exercise Recreation
See also 613.7 Hygiene of recreation; 790 Amusements

.55 Amusements: toys, dolls, games

.6 Manners Habits
See also 173.6 Duties of children

.7

.8 **Care of invalids and the infirm Sickroom**

650 Communication Commerce

651 Offis equipment and methods

See tentativ table in separate herewith

652 Writing; material, typewriters, cipher

653 Abbreviations Shorthand

.01 **Theories Available material Shading Position Detacht vowels**

.02 **Practicability for general use Teaching in public schools**

For methods see 653.07

.03 **Speed** See also 653.046, Verbatim reporting

.04 **Applications**

.041 Personal notes and records

.042 Correspondence

.043 Amanuensis work

.044 Newspaper work

.045 Shorthand job offises

.046 Official reporting, court and legislativ

.047

.05 **Periodicals** If strictly limited to one system, class with that system

.06 **Societies** " " " "

.07 **Education Shorthand schools Teaching, privately or in classes**

.08

.09 **History** Divided by countries like 930–999

.1 **Abbreviations Omissions of silent letters, vowels, etc.**

Covers desirability, dangers, lists, and all general matter about use of recognized abbreviations. See also 421.4 Phonetic spelling; 421.8 Abbreviations

.2 **Abbreviation systems**

Brief longhand. Fonoscribing, etc. For telegrafic codes, see 652
Covers only systems of quick writing with common characters.

.3 **Stenografies**

Includes both discussions and systems with arbitrary signs and new characters

.31 Before 1837

.32 Gurney

.33 Gabelsberger

.34 Stolze (Dettmann)

.35 Taylor (Baker; Harding; Odell)

.36 Cross

.37 Scovil

.38 Duployé (Pernin, Sloan)

.4 **Phonetic shorthand Phonografies**

Limited to phonetic stenografy, i. e. brief sound writing. .5 and .6 include only systems using Izaac Pitman's consonants

.41 Before Pitman (1837)

.42 Bell

.43 Jones

.44 Williams

.45

653.5 **Pitman old vowel scale systems**
.51 Benn Pitman
.52 Graham
.53 Scott-Brown
.54 Marsh
.55 Thornton
.56 Haven
.57 Allen
.58
.6 **Pitman new vowel scale systems**
.61 Izaac Pitman
.62 Munson
.63 Longley
.64 Burnz
.65
.7 **Connected vowel systems**
.71 Lindsley's takigrafy
.72 Everett
.73 Barrows
.74 Bishop
.8
.9 **Foren systems** Divided by languages like 400

The heds above are for English systems or (as in 653.3) foren systems adapted to and used for English. Other systems are groupt here by languages, but history of shorthand in special countries is in 653.99

654 Telegraf Cables Signals

For codes see 652

.1 **Telegrafic instruments**
.2 **Duplex, quadruplex, multiplex telegrafs, etc.**
.3 **Printing, perforating, dial telegrafs, etc.**
.4 **Telegrafic construction; poles, wires, condits, etc.**
.5 **Cables Submarine**
.6 **Telefones**
.7 **Alarms; burglar, fire Annunciators, bells**
.8 **Speaking tubes Pneumatic tubes**
.9 **Signals** See also 534.83 Navigation signals; 623.7 Military signals

655 Printing Publishing Copyright

.1 **History of printing**
.11 Origin, invention
.111 Claims of Gutenberg, Mainz
.112 Claims of Coster, Haarlem
.12 Celebrations, anniversaries
.121 1640
.122 1740
.123 1823
.124 1840
.13–.19 Printing in special countries Divided like 930–999
.2 **Type and typesetting**
.21 Type founding Tools of the art
.22 Electrotyping and stereotyping, etc. Patent blocks
For Photoelectrotyping, see 777
.23 Patent types, logotypes, etc.
.24 Faces, sizes, styles Specimen books
.25 Typesetting: composition, proofreading
Artistic composition: taste, display, job work
.26
.27 Imposition Locking up, etc.
.28 Typesetting and distributing machines Linotype, monotype
.3 **Practical printing** For Calico printing see 667.3
.31 Printing presses
.32 Press work: making ready Color printing Cuts
.33 Drying: hydraulic pressing, etc.
.34
.35 Stamps, stencils, etc.
.36 Machines: paging, numbering, addressing, etc.
See also 654.3 Printing telegrafs; 652 Typewriters
.37 Nature printing from plants, etc.
.38 Printing for blind see also 371.91 Education of blind
.4 **History of publishing and bookselling**
Divided by countries like 930–999
.5 **Publishing and bookselling**
.51 Selection of mss
For freedom of press *vs* censorship, see 323; Morals of press 179.1
.52 Relations to authors
Copyright payments, prices of mss bought
.53 Format
Size, paper, type, illustrations, binding
.54 Cost of manufacture
Retail prices and discounts to dealers
.55 Advertising, press copies and notices See 659.1 Advertising
.56 Retail bookselling Prices and discounts to buyers
.57 Subscription book publishing, canvassing
.58 Publishing societies
.59 Publishing by governments, institutions, etc.

655.6 **Copyright Literary property**

.61 Perpetual or common law right
Including ethics of copyright

.62 Copyright in other matter than books
Music, mss, lectures, trademarks

.63 International copyright
See also 341.5 International private law

.64–.69 Copyright in special countries
Divided like 940–999

656 Transportation: railroading, etc.
Running of trains, train and boat timetables, luggage and freight handling, lists of sailings: crews and shifts, disciplin, etc.
For mechanical interrelations of track and rolling stock see 625.2
For reports, government regulation, rate schedules, etc. see 385 for railroads, 386 for canal and 387 for river and ocean transportation

657 Bookkeeping Accounts

658 Business manuals Methods Tables
See tentativ table in separate herewith

659 Other topics

.1 **Advertising**

660 Chemic technology

.1 .2 Compends .3 Dictionaries, cyclopedias .4 Essays .5 Periodicals .6 Societies .7 Study and teaching .8 .9 History of chemic technology

661 Chemicals

.1 **Chemic elements** Divided like 546

.2 **Acids: sulfuric, nitric, etc.**

.3 **Alkalies: potash, soda, ammonia**

.4 **Salts** For common salt see 664.4

.5 Ammonia salts

.6 Sulfates and nitrates

.7 Cyanids

662 Pyrotechnics Explosivs, matches, etc.

.1 **Pyrotechnics**

.2 **Explosivs** See 622.23 Blasting; 623.4 Ordnance

.3 Gunpowder

.4 Fuses, percussion caps

.5 **Matches**

.6 **Fuel: coal, peat, natural gas, etc.**

.7 Charcoal, coke See also 644.22 Domestic economy 669.8 Metallurgy

.8 Artificial fuel See also 644.2 Domestic economy 669.8 Metallurgy

663 Beverages See also 178 Temperance 614.35 Adulterations
.1 **Fermented**
.2 Wine
.3 Brewd
.4 Beer
.5 **Distild**
.6 **Artificial mineral waters: soda water**
.7
.8 **Mixing drinks** **Barkeepers manuals**
.9 **Chocolate, coco** **Commercial mixing of teas, coffees, etc.**

664 Foods
For Adulterations see 614.31 Public helth. See also 641 Domestic economy
.1 **Sugar, molasses, glucose, etc.**
.2 **Starch, tapioca, sago, etc.**
.3 **Artificial butter, oleomargarin** **Lard, compound lard**
For butter, milk, and cheese see 637 Dairy
.4 **Salt**
.5 **Spices** **Condiments**
.6 **Yeast** **Baking powder**
For bred see 641.631 Cookery
.7
.8 **Methods of preservation: fruits and vegetables**
.9 Preservation of meat and fish

665 Oils Gases Candles Lamps
.1 **Candles** **Torches**
.2 **Animal oils and fats** See also 664.3 Foods
.3 **Vegetable oils and fats**
.4 **Mineral oils: paraffin, ozocerite, asphaltum**
.5 Petroleum, kerosene
.6 **Lamps** See also 644.32 Domestic economy
.7 **Illuminating gases** **Calcium light**
.8 **Other gases**
.9

666 Ceramics Glass, etc.
.1 **Glass** See also 748 Staind glass
.2 **Enamel**
.3 **Ceramics** See also 738 Pottery, porcelain
.4 Clay See also 553.61 Economic geology
.5 Porcelain
.6 Stoneware, earthenware, pottery
.7 **Bricks** **Tiles** See also 691.4 Bilding materials; 695.3 Roofing
.8 **Artificial stone** See also 691.3 Bilding materials
.9 **Cements** **Limes** **Mortars** See also 691.5 Bilding materials

667 Bleaching, dyeing, etc.

.1 **Bleaching**
.2 **Dyeing** **Artificial colors** **Silk and wool**
.3 Cotton dyeing and calico printing
.4 **Inks: writing inks, indelible inks**
.5 Printing inks
.6 **Paints and pigments** See also 698.1 House painting; 751 Fine arts
.7 **Varnishes** **Polish** **Lacker** See also 698.3 Varnishing
.8 **Japan** **Blacking**
.9

668 Other organic chemic industries

.1 **Soap**
.2 **Glycerin**
.3 **Glue**
.4 **Gums and resins**
.5 **Essences, perfumery, essential oils and ethers, etc.**
See also 646.7 Toilet
.6 **Fertilizers** See also 631.8 Agriculture
.7 **Distillation: coal tar, etc.**

669 Metallurgy and assaying

History of metals goes here, not in 553, 622, nor 671

.1 **Iron and steel**
.2 **Gold and silver**
.3 **Copper**
.4 **Led**
.5 **Zinc**
.6 **Tin**
.7 **Mercury and other metals**
.8 **Fuels and furnaces** **Slags**
.9 **Assaying**

670 Manufactures

Specific topics go where of most interest. These heds are for the *general* subject of metal, wood, etc. manufactures, and for such specific manufactures as are not of more interest elsewhere. But an account of a specific manufacture is commonly most useful with its own subject; e. g., a steam engin is certainly made of metal, but its manufacture should go under 621.1, not 672. The character of the library often decides the place of greatest interest. An agricultural library would prefer the manufacture and everything about wood churns with the dairy, 637, while a manufacturing library might prefer it with other wood manufactures in 674. A general library will incline to the special subject, as a more minute classification is thus obtained, and references under 670 answer inquiries for all the library has on the subject of brass or rubber or paper manufactures. Whether groupt by use or material, if sought from the other standpoint, the references show the resources promptly. As a rule the use is the better classification, being more minute and oftener wanted. But if the uses are various the general hed is better; e. g. bells are for scores of distinct uses, but their manufacture is a unit; but all churns are for the dairy

671 Articles made of metals
672 **Of iron and steel; stoves, cutlery, etc.**
673 **Of brass and bronze; bells, etc.** See also 739
674 Lumber and articles made of wood
675 Lether " " " " lether
676 Paper " " " " paper
677 Cotton, wool, silk, linen, etc.
678 Rubber and articles made of rubber
679 Celluloid and other

680 Mechanic trades Amateur manuals

681 Watch and instrument making
Catalogs of miscellaneous instruments. Class special instruments with their subjects
682 Blacksmithing
See also Zootechny, 636.0834 Shoeing
.1 **Horseshoeing**
683 Lock and gun making
684 Carriage and cabinet making
Furniture. See also 749 Artistic furniture; 694.7 Fine joinery, interior finish. Highway vehicles for separate tractors, either animal or motor. For motor vehicles see 629.2
685 Saddlery and shoemaking Trunks
686 Bookbinding
687 Clothesmaking Hats
688
689 Other trades

690 Bilding

For Architectural construction, see 721

.1 Theories of construction .2 Compends, manuals .3 Dictionaries, cyclopedias .4 Essays, lectures .5 Periodicals .6 Societies, exhibitions .7 Education, study, training, apprentisship, tools and their use (for use of special tools see special trade) .8 Collections, patents, inventions .9 History of bilding construction

691 Material Processes Preservativs
Waterproofing See also 620.1 Strength of materials
.1 **Wood Creosoting, etc.**
.2 **Natural stone Paraffining, etc.**
.3 **Artificial stone Concrete**
.4 **Bricks Tiles Other ceramic products**
.5 **Lime Cement Plaster**
.6 **Glass**
.7 **Iron Steel Antirust processes**
.8 **Other metals**
.9 **Other materials**

692 Plans Specifications, etc.

.1 **General drawings**
.2 **Detail drawings**
.3 **Specifications**
.4 **Contracts Agreements Bids Advertisements**
.5 **Estimates Quantities Costs**
.6 **Superintendence**
.7 **Supervision of accounts**
.8 **Professional servises Fees Commissions**
.9 **Bilding laws Liabilities of architects, owners, and contractors**

693 Masonry Plastering Fireproofing

.1 **Stone construction**
.11 Bonds of stone work
.12 Cutting and dressing of stone
See 515.8 Stereotomy; 736 Stone carving
.2 **Brick construction**
.21 Bonds of brick work
.22 Adobe or sundried brick, etc.
.3 **Terra cotta construction Tile**
.4 Hollow tile and porous terra cotta construction
.5 **Concrete and beton construction**
.6 **Plastering**
.61 External plastering and stucco
.62 Internal plastering
.63 Ornamental plaster work
.64 Scagliola
.65 Wooden lath
.66 Metal lath (Wire, etc.)
.67 Mineral wool linings, etc.
.7
.8 **Fireproofing**
.9

694 Carpentry: joinery, stairbilding

.1 **Wood construction; general**
.2 **Joints of woodwork Framing**
.3 **Strengthend beams**
.4 **Posts Colums** See also 721.31
.5 **Paneld and lattist construction**
.6 **Joinery, general** For Finishing, varnish, polish, etc. see 698 3
.7 Ornamental joinery Cabinet work
For cabinetmaking see 684
.8 **Stairbilding** See also 515.83 Stereotomy
.9 **Other branches** See also 721.87–.89

695 Roofing: slating, tiling

For roof construction see 721.4

.1 **Wood: shingle**
.2 **Slate**
.3 **Tile**
.4 **Metal: tin, copper, led, zinc**
.5 Iron
.6 **Asfalt Tar Concrete (Melted)**
.7 **Felt Asbestos Paper (In rolls)**
.8 **Textil: duck, canvas**
.9 **Thatch and other coverings**

696 Plumbing Gas and steam fitting, etc.

.1 **Plumbing** For principles of sanitation see 628
.2 **Gasfitting**
.3 **Steamfitting**
.4 **Rivets and riveted joints**
.5 **Screws and screw joints**
.6 **Rust or calkt joints**
.7 **Anchors Band irons**
.8 **Other branches**
.9 **Plumbing laws** See also 614 Public helth

697 Heating and ventilation

See also sanitary engineering, 628.8; domestic economy, 644. For lighting see 628.9

.1 **Fireplaces**
.2 **Stoves**
.3 **Furnaces**
.4 **Hot water, high and low pressure**
.5 **Steam, high and low pressure**
For boilers, see 621.184; for power plants, see 621.19
.6 **Gas: coal gas, water gas, natural gas**
.7 **Electric and other methods**
.8 **Smoke flues and chimneys**
.9 **Ventilation: air ducts, condits, fans**

698 Painting Glazing Paperhanging

.1 **Painting Oil**
.2 Distemper and fresco
.3 Varnishing Polishing
.4 Other modes of protection
.5 **Glazing** For Staind glass see 748
.6 **Paperhanging**
.7 **Textil hangings: tapestry**
For tapestry design, see 745
.8 **Relief work: lincrusta, stampt lether, etc.**
.9 **Other branches**

699 Carbilding

Railway and tramway cars, passenger and freight, with or without motors. For highway cars see 629.2

Fine Arts

700 Fine arts

701 Philosofy: theories, utility, esthetics
702 Compends, outlines
703 Dictionaries, cyclopedias
704 Essays, lectures, addresses
705 Periodicals, magazines, reviews
706 Societies: transactions, reports, etc.
707 Education: study and teaching of art
708 Art galleries and museums
.1 **American: Corcoran, Metropolitan, Boston**
.2 **English: National, Hampton Court, Windsor**
.3 **German: Dresden, Munich, Berlin, Vienna**
.4 **French: Louvre, Luxembourg**
.5 **Italian: Vatican, Sistine, Pitti, Medici, Borbonico**
.6 **Spanish: Madrid, Seville**
.7 **Russian: St Petersburg, Hermitage**
.8 **Scandinavian: Copenhagen**
.9 **Other countries**
709 History of art in general Divided like 930–999

710 Landscape gardening

Town and city planning For special cities see 914-919
711 Public parks
712 Private grounds, lawns
713 Walks Drives
714 Water: fountains, lakes
715 Trees Hedges Shrubs
See also 634.9 Forestry; 582 Botany
716 Plants Flowers
.1 Plants .2 Flowers .3 Conservatories .4 Window gardens .5 Ferneries
717 Arbors Seats Outlooks
718 Monuments Mausoleums
719 Cemeteries See also 393.1 Earth burial; 614.61 Public helth

720 Architecture

.1 Theories, esthetics, architectonics .2 Compends, manuals .3 Dictionaries, cyclopedias .4 Essays, lectures .5 Periodicals .6 Societies .7 Education, study, training, schools of architecture .8 Polygrafy. collections .9 General history of architecture, divided geograficly like 940–999

721 Architectural construction

.1 **Foundations** See also bridge engineering, 624.1 Foundations

.11 Foundation bed Nature of soil Load on foundation
Trial borings. Rock, sand, gravel, peat, quicksand

.12 Excavation: timbering, shoring

.13 Material for bilding foundations
Divided like 620.1

.132 Wood

.133 Stone, cement, concrete

2 **Stone, dimension or rubble**

5 **Cement**

6 **Concrete**

.134 Brick

.14 Pile foundations: general Material

.141 Sand piles

.142 Wood or timber piles

.143 Concrete piles

.147 Iron piles

.15 Pile foundations: method of sinking

.151 Piledriver

.152 Screw pile Boring anchor

.153 Disk pile

.154 Hydraulic pile

.155 Pneumatic pile

.16 Platform and other special foundations

.162 Timber platforms or gratings: plank foundations

.163 Concrete platforms

.164 Iron and concrete: reinforced concrete platforms

.165 Masonry platforms

.166 Concrete legs or stilts

.167 Cantilever foundations

.17 Subaqueous foundations

.171 Cofferdams

.172 Open crib or caisson Cylinder foundations

.173 Pneumatic caisson

.174 Freezing

.175 Pneumatic forcing

.176 Sunken wells: dredging thru wells

.177 Sunken tubes

721.2 **Walls**
.21 Wood and halftimberd
.22 Stone
.23 Artificial stone, concrete, pisé, etc.
.24 Brick
.25 Bases Water tables Belt courses
.26 Arcades Colonnades
.27 Cornises
.28 Gables and pediments See also 721.58 Gable roofs
.29 Other walls
.3 **Piers Colums**
.31 Wood See also Carpentry 694.4
.32 Stone
.33 Concrete, artificial stone
.34 Brick, terra cotta
.35 Iron, steel
.36 Fireproof Protected
.4 **Archt constructions**
See 624.6 Archt bridges; and 729.33 and 729.37 Elementary forms
.41 Arches, circular
.42 Arches, other forms
.43 Vaults, cylindric
.44 Vaults, groind
.45 Vaults, other forms
.46 Domes, circular
.47 Domes, other forms
.5 **Roofs** See also 695 Roof coverings; 624.9 Engineering, roofs; 729.35 Roof design
.51 Wood
.52 Masonry
.53 Glass
.54 Metallic
.55 Windows Openings in roofs
.56 Roof decoration: cresting, repoussé work, colord tiles, etc.
See also 695.3
.57 Spires and domes
.58 Gables See also 721.28 Gable walls
.59 Other forms of roofs
.6 **Floors and flooring**
.61 Wood Construction and coverings
.62 Stone " "
.63 Brick and hollow tile " "
.64 Metallic Compound " "
.65 Composit " "
.66 Parquetry Coverings only
.67 Mosaics " "
.68 Tiles See 695.3 Roofing tile
.69 Other coverings

721.7 **Ceilings**
For vaulted ceilings, see 721.4 and 729.34
.71 Wood
.72 Stone
.73 Brick or tiles with iron
.74 Metallic
.75 Concrete Plaster
.76
.77
.78
.79
.8 **Doors Gates Grilles Windows**
.81 Doors, wooden
.82 Doors, metallic
.83 Doors, sash, lattis, screen, etc.
.84 Windows, external
.85 Windows, internal
.86 Inclosures of doors and windows
Architraves Pilasters Jams Pediments Lintels, etc.
.87 Shutters Blinds Screens Grilles
.88 Fastenings Locks
.89 Other details
.9 **Iron and composit structures**
For strength of materials, see Engineering, 620.11
.91 Cast iron
.92 Wrought iron
.93 Steel
.94 Composit
.95 Iron and wood
.96 Iron and stone
.97 Iron and brick, tile, terra cotta Reinforced concrete
.98 Iron and glass
.99 Wood and glass

722 Ancient and Oriental architecture (Pagan)

See also 571.8 Prehistoric dwellings
.1 **Chinese Japanese**
.2 **Egyptian**
.3 **Phenician Tyrian Jewish Carthaginian Cypriote**
.4 **Indian (Asiatic)**
Hindu, Buddhist, Jaina, Himalayan, Dravidian, Chalukyan, Indo-Aryan, Burmese, Siamese, Cambodian
.5 **Chaldean Assyrian Babylonian Ancient Persian Sassanian**
.6 **Pelasgian Etruscan**
.7 **Roman** See 729.32 for Roman orders
.8 **Grecian** See 729.32 for Greek orders
.9 **Other: Aztec, Peruvian, Maya, Yucatan, etc.**

723 Medieval Christian Mohammedan

.1 **Early Christian**
.2 **Byzantine Armenian Russian**
.3 **Mohammedan: Saracenic, Moorish, Persian, Turkish, Indian** For Ancient Indian see 722.4
.4 **Romanesque**
.41 Scotch Irish
.42 English Saxon Norman
.43 German Austrian
.44 French Provençal Norman Angevin
.45 Italian Sicilian Norman
.46 Spanish Portuguese
.47
.48 Danish Swedish Norwegian
.49 Minor countries
.5 **Gothic or pointed** Divided like 723.4

724 Modern

All the subsections of 724 are subdivided geograficly like 940–999

.1 **Renaissance**
.19 Baroque Rococo
.2 **Grecian revival**
.3 **Gothic revival**
.4 **Victorian Gothic Tudor Elizabethan**
.5 **Queen Anne**
.59 Georgian
.6 **Néo-Grec**
.7 **Swiss Timber**
.8 **Romanesque revival**
.9 **Other styles**

725 Public bildings

.1 **Administrativ Governmental**
.11 Capitols Houses of parliament
.12 Ministries of war, state, etc.
.13 City and town halls Bureaus Public offises
.14 Custom houses Bonded warehouses Excise offises
.15 Court houses Record offises
.16 Post offises, general and special
.17 Official residences Palaces of rulers
.18 Barracks Armories Police stations
See also 623.61 Military bildings
.19 Engin houses Fire alarm stations

725.2 **Business and commercial**
.21 Stores, wholesale and retail
.22 Mixt store, offis, and apartment bildings
.23 Offis bildings: telegraf, insurance
.24 Banks: safe deposit, savings
.25 Exchanges Boards of trade
.26 Markets
.27 Cattle markets Stock yards
.28 Abattoirs
.29 Other business bildings
.3 **Transportation and storage**
.31 Railway passenger stations
.311 Small (country) stations
.312 Large (city) "
.313 Union stations
.314 Stations on 2 levels
.315
.316
.317 Street-car stations
.318 Elevated railway stations
.319 Underground railway stations
.32 Railway freight houses
.33 Railway shops, roundhouses, car houses, tanks, stores
.34 Dock bildings Wharf boats and houses
.35 Warehouses Cold storage Safe deposit storage
.36 Elevators, grain
.37
.38 Garages Livery stables
For private stables and garages see 728.94
.39 Other
.4 **Factories**
.41 Textil factories or mills: wool, cotton, silk
.42 Breweries Malteries Distilleries
.43 Foundries Machine shops Iron and steel works
.44 Woodworking mills Furniture factories
.45 Carriage and car factories
.46 Paper mills
.47 Mills for flour, meal, feed, etc.
.48 Pottery, glass, terracotta, brick works
.49 Other factories

725.5 Hospitals and asylums See also 725.6 Reformatories
.51 Sick and wounded Eye and ear Incurables Lying-in
.52 Insane
.53 Idiotic Feebleminded
.54 Blind Def and dum
.55 Paupers Almshouses
.56 Aged
.57 Children Orphans
.58 Foundling
.59 Soldiers homes
.6 Prisons and reformatories
.61 State prisons Penitentiaries
.62 Jails Cell houses
.63 Reformatories for adults Houses of correction
.64 Reform schools
.65 Washingtonian homes Inebriate asylums
.66
.7 Refreshment Baths Parks
.71 Cafés Restaurants
.72 Saloons
.73 Baths: warm, medicated, turkish, russian
.74 Swimming baths
.75 Bildings for watering places, spas, etc.
.76 Bildings for parks
.8 Recreation
.81 Music halls
.82 Theaters Opera houses
Grand stands, stadiums
.83 Halls for lectures, readings, etc.
.84 Bowling alleys Billiard saloons
.85 Gymnasiums Turn halls
.86 Skating rinks Bicycle rinks
.87 Boat houses
.88 Riding halls and schools
.89 Shooting galleries
.9 Other public bildings
.91 Exhibition halls
.92 Temporary halls Tabernacles Wigwams
.93 Workingmen's clubs and institutes
.94

726 Ecclesiastic and religious

.1 **Temples**
.2 **Mosques**
.3 **Synagogs**
.4 **Chapels** **Sunday school bildings**
.5 **Churches**
.6 **Cathedrals**
.7 **Monasteries** **Convents** **Abbeys**
.8 **Mortuary: cemetery chapels, receiving vaults, tombs**
.9 **Other: Y. M. C. A. etc.**

727 Educational and scientific

.1 **Schools**
Study and recitation rooms. Not including dormitory or boarding
.2 **Academies** **Seminaries** **Boarding schools**
.3 **Colleges** **Universities**
.4 **Professional and technical schools: law, theology, etc.**
.5 **Laboratories: physical, chemic** See 542.1 **biologic, etc**
Zoologic and botanic gardens See also 590.7 and 580.7
.6 **Museums** **Herbariums** See 580.7
.7 **Art galleries** **Studios**
.8 **Libraries** See 022 Library bildings
.9 **Other: learned societies, etc.**

728 Residences

.1 **Tenement houses**
.11 City homes of poor
.12 Country "
.13 Cités ouvrières
.2 **Apartment houses** **Flats** **Family hotels**
.3 **City houses** **Mansions** **Palaces**
.31 Between party walls Stone
.32 " " Brick
.33 " " Partly wood
.34 Semidetacht, including end houses in city blocks Stone
.35 " " " Brick
.36 " " " Partly wood
.37 Detacht Stone
.38 " Brick
.39 " Partly wood
.4 **Club houses** **Bildings for secret societies**
.5 **Hotels** **Inns**
.51 City hotels
.52 Summer resorts
.53 Country inns

728.6 Village and country homes
.61 Village dwellings; on small lots
.62 Stone
.63 Brick
.64 Concrete or stucco
.65 Part masonry, part wood
.66 All wood
.67 Farm houses
.68 Laborers cottages
.7 Seaside and mountain cottages Chalets
.8 Country seats
.81 Castles
.82 Chateaux
.83 Manor houses
.84 Villas
.9 Outbildings
.91 Porters lodges
.92 Servants quarters
.93 Kitchens and laundries
.94 Stables Carriage houses Garages
See also 725.38 Public garages and livery stables
.95 Barns Granaries
.96 Dairies
.97 Ice houses
.98 Conservatories Greenhouses Graperies
.99 Other

729 Architectural design and decoration

For decorativ illumination see 745

.1 The elevation
.11 Composition
.12 Distribution
.13 Proportion
.14 Light and shade
.15 Perspectiv effect
.16
.17
.18
.19

For projection of shadows and grafics of light and shadow see 515.63 and 5157.

.2 The plan
.21 Elements required
.22 Distribution
.23 Proportion

729.3 Elementary forms

For construction of these forms see 721

.31 Walls Moldings Cornises
.32 Piers, colums, pilasters, pedestals and the orders Colonnades
.33 Arches and arcades
.34 Vaults and domes
.35 Roofs Spires Dormers
.36 Towers
.37 Gables and pediments
.38 Doors and windows Bays Oriels
.39 Stairs and balustrades

See also 515.83 Stereotomy; 694.8 Stairbilding

.4 Painted decoration

See also 729.7 Mosaic

.41 Vegetable forms
.42 Animal forms
.43 Grotesque forms
.44 Conventional and geometric forms
.45 Painted moldings
.46 Painted friezes and panels
.47 Painted colums and pilasters
.48 Painted ceilings and vaults
.49 Painted walls

.5 Decoration in relief

For bas relief and figure carving see 730

.51 Vegetable forms
.52 Animal forms
.53 Grotesque forms
.54 Conventional and geometric forms
.55 Carvd moldings
.56 Carvd friezes and panels
.57 Carvd colums and pilasters
.58 Carvd ceilings and vaults
.59 Other carvd ornament

.6 Incrustation and veneering

.61 Of external walls (in brick, stone, or marble, tiles. etc.)
.62 Of interiors
.63 Intarsia and inlay
.64 Niellowork
.65 Enamel decoration
.66
.67
.68
.69

729.7 **Mosaic**
.71 Mosaic ceiling
.72 Mosaic walls
.73 Mosaic floors
.74 Other mosaic designs
.75
.76
.77
.78
.79
.8 **Staind glass design**
For technical processes see 666.1; for history see 748
.81 Geometric windows
.82 Medallion windows
.83 Canopy windows
.84 Figure windows
.85 Mosaic windows
.86 Other kinds of staind glass
.87
.88
.89
.9 **Architectural accessories and fixt furniture**
.91 Altars
.92 Pulpits Tribunes
.93 Dais Thrones
.94 Buffets
.95 Mantels Overmantels
.96 Screens Rood screen Reredos
.97
.98
.99

730 Sculpture

731 Materials and methods
732 Ancient
733 **Greek and Roman**
734 Medieval
735 Modern
736 Carving Seals Dies Gems Cameos
737 Numismatics Coins Medals
Artistic and historic side See also 332.4 Coins and coinage, as money
738 Pottery Porcelain
739 Bronzes Brasses Bricabrac

740 Drawing Decoration Design

Arts and crafts

741 Freehand Crayon Sketching from nature Caricatures Cartoons

Collections on any subject go with that subject with reference from 741

742 Perspectiv See also 515.6

743 Art anatomy Life school

744 Mathematic and scientific drawing See 515

Instructions for architectural and other mathematical drawing, with demonstrations (if any) subsidiary.
Textbooks with mathematical demonstrations in scientific order ar better in 515

745 Ornamental design: woven fabrics, carpets, wall paper, etc.

746 Art needlework Fancy work

747 Interior decoration Distemper Fresco Polychrome

748 Staind and iridescent glass For leding, see 698.5

749 Artistic furniture Fireplaces Frames, etc.

750 Painting

751 Materials and methods

752 Color See also 535.6 Optics

753 Epic Mythic Idealistic See 759.3 German schoo

754 Genre Still life See 759.4 French; and 759.9 Belgian

755 Religious, ecclesiastic See 759.5 Italian; and 759.6 Spanish

See also 246 Ecclesiology

756 Historical, battle scenes

757 Portrait

758 Landscape and marine Animals Flowers

759 Various schools of painting

.1 **American**
.2 **English**
.3 **German**
.4 **French**
.5 **Italian**
.6 **Spanish**
.7 **Slavic**
.8 **Scandinavian**
.9 **Other schools**

760 Engraving

761 Wood
762 Copper and steel
763 Lithografy
764 Chromolithografy
765 Line and stipple
766 Mezzotint and aquatint
767 Etching Dry point
768 Bank note and machine
769 Collections of engravings

770 Fotografy

771 Materials Fotografic chemistry
772 Processes
Silver: daguerreotype, talbotype
Collodion: ambrotype, etc.
Dry plate
Color fotografy
773 **Gelatin and pigment: woodburytype**
Carbon: lambertype, autotype, etc.
774 **Gelatin and printers ink**
Albertype, heliotype, artotype, etc.
775 Fotolithografy, etc.
776 Fotozincografy, etc.
777 Fotoengraving and fotoelectrotyping
778 Special applications
Moving pictures. See also 522.63 Astronomy; 578 Microscopy
779 Collections of fotografs

780 Music

.1 Philosofy and esthetics of music .2 Compends .3 Dictionaries .4 Essays .5 Periodicals .6 Societies .7 Education, conservatories .8 Polygrafy, libraries .9 History, divided by countries, like 930–999

All heds include the music itself and everything about it: score, libretto, history, criticism, etc.

781 Theory of music

.1 **Mathematic and physical**
.2 **Elementary and general**
.3 **Harmony Thorobass**
.4 **Counterpoint**
.5 **Musical form**
.6 **Composition and instrumentation**
.7 **Oriental theories and forms Russian music**
.8 **Ancient Grecian theories, modes, and forms**
.9

782 Dramatic music

.1 **Grand opera**
.2 Epic Wagnerian
.3 Other German grand opera
.4 French grand opera
.5 Italian grand opera
.6 **Comic and satiric**
.7 **Opera bouffe**
.8 **Operettas and cantatas** See 783.4
.9 **Pantomimes, masks, etc.**

783 Sacred music

See 245 Hymnology, sacred poetry, for hymns alone; if with tunes they go in 783.9; 786.8 Organ; 246.7–8 Evangelistic use and Eucharistic music; 264.2 Public worship

.1 **Organ and orchestral Accompaniment**
.2 **Cathedral servises: masses, vespers, etc.**
.21 Mass Communion servises
.22 Common of the mass: kyrie, gloria in excelsis, credo, benedictus, Agnus Dei
.23 Proper of the season: offertory, sequence, gradual, tract
.24 Choral servis: antiphonal, responsiv
.25 Plain song
.26 Litanies
.27 Lenten and penitential: Good Friday, reproaches
.28 Festival: Christmas, Easter, etc.
.29 Processional Recessional

783.3 **Oratorio Passion music**
.4 **Anthem Motet Sacred cantata**
Polyphonic school, Palestrina. 16th century
.5 **Chant: Gregorian, Anglican**
.6 **Chorale Tune Carol**
.7 **Evangelistic: mission, revival Sunday school**
.8 **Choir: men and boys Quartet Chorus**
.9 **Congregational singing Psalmody Hymnody**

784 Vocal music

.1 **Glee Madrigal Round Catch**
.2 **Aria Cavatina Recitative** e. g. in oratorio, mass, opera
.3 **Ballad and song**
Romantic, idyllic, sentimental; e. g. modern German
.4 **Popular ballads Volkslied; e. g. Irish, Scotch, etc.**
.5 **Festival; e. g. sängerbund, eisteddfod Competitiv**
.6 **College, society songs, and choruses**
.7 **Negro minstrelsy, plantation songs**
.8 **Collected songs**
.81 Solos
.82 Duets
.83 Trios
.84 Quartets
.85 Other part songs
.86 Choruses
.87 Collections for male voices
.88 Collections for female voices
.89 Other special collections
.9 **Vocal hygiene, culture, development, and methods Tonic sol-fa**

785 Orchestral music

For dramatic orchestral music, see 782; sacred, 783.1

.1 **Symphony**
Three or more movements; e. g. adagio, andante, allegro, allegretto, scherzo, finale, etc.
.2 **Dramatic, illustrativ, descriptiv, program, imitativ**
e. g. Mendelssohn's Midsummer night's dream
.3 **Romantic, idyllic**
.4
.5 **Overture: e. g. Beethoven's Leonores**
.6 **Concerto: orchestral with solo instrument**
.7 **Chamber music**
.8 **Suite**
.9 **Arrangements, transcriptions, potpourris**

786 Piano and organ

.1 **Piano History**
.2 **Manufacture Tuning Temperament**
.3 **Instruction**
.4 **Piano music General collections**
For piano concerto, see 785.6
.41 Sonata Sonatina Rondo
.42 Fantasia Arabesque
.43 Nocturne Meditation Romantic Descriptiv
Songs without words
.44 March and march form Polonaise Polka Mazurka
.45 Dance form: national, classic, idealized
.46 Modern dance music Society, festiv
.47 Etudes Artistic For études for instruction, see 786.3
.48 Variations, transcriptions
.49 Arrangements
Four hands and more; e. g. orchestral music arranged for piano
.5 **Organ History**
.6 **Bilding**
.7 **Instruction**
.8 **Organ music** See also 783 Sacred music
.81 Sonata
.82 Fugue
.83 Preludes
.84 Interludes
.85 Postludes
.86 Offertories
.87 Voluntaries Improvisations
.88 Organ and piano
.89 Organ, piano, and orchestra
.9 **Cabinet organ Melodeon**

787 Stringd instruments

Including with each, history, manufacture, instruction, music, etc. Music for 2 instruments is put with the one most prominent in the composition

Bowd

.1 **Violin**
.2 **Viola**
.3 **Violoncello**
.4 **Double bass Contra bass**

Plectral

.5 **Harp**
.6 **Guitar Lute Mandolin, etc.**
.7 **Banjo**
.8 **Zither**
.9 **Other stringd instruments Harpsichord**

788 Wind instruments

Including with each, history, manufacture, instruction, music, etc.

Brass

.1 **Trumpet: slide and valv**
.2 **Trombone**
.3 **Cornet**
.4 **Horns and other brass wind instruments**
.41 French horn
.42 Saxhorn
.43 Saxophone
.44 Euphonium
.45 Ophicleide
.46 Key bugle
.47 Valv bugle
.48 Bass Tuba and contrabass tuba Serpent
.49 Other

Wood: flute group

.5 **Flute Waldflute Piccolo Fife Flageolet**

Wood: reed group

.6 **Clarinet Bass clarinet Bassethorn**
.7 **Oboe D'amore Da caccia Cor anglais**
.8 **Bassoon Double bassoon Bombardon**
.9 **Other reed wind instruments: bagpipe**

789 Percussion and mechanical instruments

Percussion

.1 **Drum**
.2 **Cymbals**
.3 **Triangle**
.4 **Tambourine Castanets Bones**
.5 **Bells: chimes, carillon**
.6 **Other percussion instruments: xylofone**

Mechanical

.7 **Orchestrion**
.8 **Music box**
.9 **Other mechanical instruments**

790 Amusements

For ethics of amusements, see 175

791 Public entertainment

Concert, panorama, circus, menagerie, summer resort, garden, rink, museum fair, festival

792 Theater Pantomime Opera

Passion plays. Fotoplays. See also 782 Dramatic music

793 Indoor amusements

Private theatricals, tableaux, charades, dancing

794 Games of skill

Chess, checkers, billiards, bowling, bagatel

795 Games of chance

Cards, dice, backgammon, dominoes

796 Outdoor sports

Children's sports, athletic sports, coasting, skating, cycling, quoits, archery, croquet, lawn tennis

797 Boating and ball

Rowing, yachting, baseball, football, cricket, polo

798 Horsemanship and racing

799 Fishing, hunting, target shooting

Literature

The classification, of literature is by *language*, not country, except that North and South American are separated from other English. Canadian French goes with 840; Australian and Indian English with 820; South American Spanish with 860, etc. Numbers assignd to individual authors include only their *literary* works of that section and complete works which can not be divided. Books on other subjects go with their proper subjects, unless a 'special library' attracts all the authors' works, lives, etc. An author writing in 2 periods has all his books put in the one where most of them belong.

800 Literature: general works

801 Philosofy Theories Literary esthetics

802 Compends, outlines

803 Dictionaries, cyclopedias

804 Essays, lectures, addresses

805 Periodicals, magazines, reviews

806 Societies: transactions, reports, etc.

807 Study and teaching of literature

808 Rhetoric Treatises Collections

Divided .1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory, see also 784.9 Vocal culture .6 Letters, epistolografy .7 Satire, humor .8 Collections too general to go with any one language, e. g. a book of quotations from many languages

These heds, and the same under 809, include only works about poetry, etc. regardless of language

809 History of literature in general

Including general histories of books and knowledge; e. g. Hallam's *Literature of the middle ages*

Divided like 808 .1 Poetry .2 Drama .3 Fiction, etc.

[illegible]

[illegible]

[illegible] prefixing C; e. g. C 811 [illegible]

[illegible] American literature [illegible] Collections .9 History of [illegible]

[illegible] Ballads .05 Didactic [illegible] .09 History of [illegible]

[illegible]

Late 19th century [illegible]

[illegible]	1825–1905
[illegible] Hamilton	1831–[illegible]
[illegible]	1833–[illegible]
[illegible]	1830–1903
[illegible] (Joaquin)	1841–1913
[illegible]	1825–78

Early 20th century 1901–

812 American drama

.1	**Colonial 1607–1776**	
.11	Warren, Mercy	1728–1814
.12	Godfrey, Thomas	1736–63
.13		
.2	**Post-revolutionary 1776–1830**	
.21	Tyler, Royall	1757–1826
.22	Dunlap, William	1766–1839
.23	Hillhouse, James Abraham	1789–1841
.24	Ingersoll, Charles Jared	1782–1862
.25		
.3	**Middle 19th century 1830–61**	
.31	Ritchie, Anna Cora Mowatt	1818–70
.32	Mathews, Cornelius	1817–89
.33	Boker, George Henry	1823–90
.34		
.4	**Later 19th century 1861–1900**	
.41		
.5	**Early 20th century 1901–**	

813 American fiction

.1	**Colonial 1607–1776**	
.2	**Post-revolutionary 1776–1830**	
.21	Brackenridge, Hugh Henry	1748–1816
.22	Rowson, Susanna	1762–1824
.23	Brown, Charles Brockden	1771–1810
.24	**Cooper, James Fenimore**	1789–1851
.25	Ware, William	1797–1852
.26	Neal, John	1793–1876
.27		
.28		
.29		
.3	**Middle 19th century 1830–61**	
.31	Thompson, Daniel Pierce	1795–1868
.32	Kennedy, John Pendleton	1795–1870
.33	**Hawthorne, Nathaniel**	1804–64
.34	Judd, Sylvester	1813–53
.35	Simms, William Gilmore	1806–70
.36	Melville, Herman	1819–91
.37	Stowe, Harriet Beecher	1812–96
.38		
.39		
.4	**Later 19th century 1861–1900**	
.41	Alcott, Louisa May	1832–88
.42	Eggleston, Edward	1837–1902
.43	Howells, William Dean	1837–
.44	Aldrich, Thomas Bailey	1836–1907
.45	Harte, Francis Bret	1839–1902
.46	James, Henry	1843–1916
.47	Hawthorne, Julian	1846–
.48	Burnett, Frances Hodgson	1849–
.49	Minor novelists	
.5	**Early 20th century 1901–**	

814 American essays

.1	**Colonial 1607–1776**		
.2	**Post-revolutionary 1776–1830**		
.21	Rush, Benjamin	1745–1813	
.22	Webster, Noah	1758–1843	
.23	Channing, William Ellery	1780–1842	
.3	**Middle 19th century 1830–61**		
.31	Ossoli, Margaret Fuller	1810–50	
.32	Giles, Henry	1809–82	
.33	Tuckerman, Henry Theodore	1813–71	
.34	**Holland, Josiah Gilbert**	1819–81	
.35	Whipple, Edwin Percy	1819–86	
.36	**Emerson, Ralph Waldo**	1803–82	See also 191.3
.37	Curtis, George William	1824–92	
.4	**Later 19th century 1861–1900**		
.41	Burroughs, John	1837–	
.42			
.43			
.44			
.5	**Early 20th century 1901–**		

815 American oratory

.1	**Colonial 1607–1776**		
.11			
.12			
.2	**Post-revolutionary 1776–1830**		
.21	Hamilton, Alexander	1757–1804	
.22	Ames, Fisher	1758–1808	
.23	Wirt, William	1772–1834	
.24	Randolph, John	1773–1833	
.25	Clay, Henry	1777–1852	
.26	Calhoun, John Caldwell	1782–1850	
.27	Webster, Daniel	1782–1852	
.28			
.29			
.3	**Middle 19th century 1830–61**		
.31	Everett, Edward	1794–1865	
.32	Choate, Rufus	1799–1859	
.33	Sumner, Charles	1811–74	
.34	Phillips, Wendell	1811–84	
.35	Chapin, Edwin Hubbell	1814–80	
.36	Beecher, Henry Ward	1813–87	
.4	**Later 19th century 1861–1900**		
.41			
.42			
.43			
.5	**Early 20th century 1901–**		

816 American letters

Subdivided by periods, like 811

817 American satire and humor

.1	**Colonial 1607-1776**	
.11	Ward, Nathaniel	1570–1653
.12	Alsop, George	1638– ?
.13	Byles, Mather	1706–88
.14	Hopkinson, Francis	1737–91
.15	Peters, Samuel Andrew	1735–1826
.2	**Post-revolutionary 1776–1830**	
.21	Story, Isaac	1774–1803
.22	Fessenden, Thomas Green	1771–1837
.23	Paulding, James Kirke	1779–1860
.24	**Irving, Washington**	1783–1859
.25	Verplanck, Gulian Crommelin	1786–1870
.26		
.27		
.3	**Middle 19th century 1830–61**	
.31	Neal, Joseph Clay	1807–47
.32	**Holmes, Oliver Wendell**	1809–94
.33	Shelton, Frederick William	1814–81
.34	Shillaber, B P (Mrs Partington)	1814–90
.35	Saxe, John Godfrey	1816–87
.36	Cozzens, Frederick Swartout	1818–69
.37	Browne, C: F (Artemus Ward)	1834–67
.38	Haliburton, Thomas Chandler	1796–1865
.39	Minor satirists and humorists	
.4	**Later 19th century 1861–1900**	
.41	Warner, Charles Dudley	1829–1900
.42	Locke, David Ross (P V Nasby)	1833–88
.43	Burdette, Robert J	1844–1914
.44	Clemens, S: L (Mark Twain)	1835–1910
.45	Carleton, William	1845–1912
.46	Shaw, Henry W (Josh Billings)	1818–85
.47		
.5	**Early 20th century 1901–**	

818 American miscellany

.3	**Middle 19th century 1830–61**	
.31	Thoreau, Henry David	1817–62
.32	Mitchell, Donald Grant (Ik Marvel)	1822–1908
.4	**Later 19th century 1861–1900**	
.5	**Early 20th century 1901–**	

820 English literature

Canadian literature may be clast as British, if preferd, but separated by prefixing C to 820. See note to 810

820.1 Philosofy .2 Compends .3 Dictionaries .4 Essays on English literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

821 English poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic .06 Descriptiv .07 Satiric and humorous .08 Collections .09 History of English poetry

.1	**Early English 1066–1400**	
.11	Layamon	1150–1207
.12	Ormin	1187–1237
.13	Robert of Gloucester	1245–1307
.14	Minot, Lawrence	1313–52
.15	Langland, William	1332–99
.16	Barbour, John	1316–95
.17	**Chaucer, Geoffrey**	1340–1400
.18	Gower, John	1325–1408
.19	Minor writers	
.2	**Pre-Elizabethan 1400–1558**	
.21	Lydgate, John	1369–1461
.22	Skelton, John	1460–1529
.23	Dunbar, William	1460–1520
.24	Douglas, Gavin	1474–1522
.25	Hawes, Stephen	1483–1509
.26	Lyndsay, Sir David	1490–1555
.27	Wyatt, Sir Thomas	1503–42
.28	Surrey, Henry Howard, earl of	1517–47
.29	Minor writers	
.3	**Elizabethan 1558–1625**	
.31	**Spenser, Edmund**	1553–99
.32	Sidney, Sir Philip	1554–86
.33	Daniel, Samuel	1562–1619
.34	Drayton, Michael	1563–1631
.35	Davies, John	1569–1626
.36	Drummond, William	1585–1649
.37	Fletcher, Giles and Phineas	1585–1650
.38	Herbert, George	1593–1632
.39	Minor writers	
.4	**Post-Elizabethan 1625–1702**	
.41	Suckling, Sir John	1609–42
.42	Crashaw, Richard	1616–50
.43	Herrick, Robert	1591–1674
.44	Waller, Edmund	1605–87
.45	Lovelace, Richard	1618–58
.46	Cowley, Abraham	1618–67
.47	**Milton, John**	1608–74
.48	**Dryden, John**	1631–1700
.49	Minor writers	

821.5	**Queen Anne** Early 18th century	1702–45	
.51	Prior, Matthew	1664–1721	
.52	Parnell, Thomas	1679–1717	
.53	**Pope, Alexander**	1688–1744	See also 827.55
.54	Ramsay, Allan	1686–1758	
.55	Young, Edward	1684–1765	
.56	Thomson, James	1700–48	
.57	Collins, William	1721–59	
.58	Shenstone, William	1714–63	
.59	Minor writers		
.6	**Later 18th century** Pre-revolutionary	1745–1800	
.61	Gray, Thomas	1716–71	
.62	Akenside, Mark	1721–70	
.63	Chatterton, Thomas	1752–70	
.64	Goldsmith, Oliver	1728–74	
	See also 823.64 and 824.66		
.65	Cowper, William	1731–1800	
.66	Macpherson, James	1738–96	
.67	**Burns, Robert**	1759–96	
.68	White, Henry Kirke	1785–1806	
.69	Minor writers		
.7	**Early 19th century** Post-revolutionary	1800–37	
.71	Wordsworth, William	1770–1850	
.72	Coleridge, Samuel Taylor	1772–1834	
.73	Southey, Robert	1774–1843	
.74	Scott, Sir Walter	1771–1832	See also 823.73
.75	Moore, Thomas	1779–1852	
.76	Byron, George Gordon Noel, 6th lord	1788–1824	
.77	Shelley, Percy Bysshe	1792–1822	
.78	Keats, John	1795–1821	
.79	Minor writers		
.8	**Victorian period**	1837–1900	
.81	Tennyson, Alfred, 1st baron	1809–92	
.82	Browning, Elizabeth Barrett	1809–61	
.83	Browning, Robert	1812–89	
.84	Rossetti, Dante Gabriel	1828–82	
.85	Morris, William	1834–96	
.86	Swinburne, Algernon Charles	1837–1909	
.87			
.88			
.89	Minor writers		
.91	**Early 20th century**	1901–	

822 English drama

.1	**Early English**	1066–1400
.11	Chester plays	
.12	Coventry plays	
.13	Townley plays	

822.2	**Pre-Elizabethan**	**1400–1558**	
.21	Heywood, John	1506–65	
.22	Udall, Nicholas	1505–64	
.23	Bale, John	1495–1563	
.3	**Elizabethan**	**1558–1625**	
.31	Greene, Robert	1561–92	
.32	Marlowe, Christopher	1564–93	
.33	**Shakespere, William**	1564–1616	
.34	**Jonson, Ben**	1574–1637	
.35	**Beaumont, Francis**	1584–1616	
	and Fletcher, John	1579–1625	
.36	Webster, John	1582–1652	
.37	Massinger, Philip	1584–1640	
.38	Ford, John	1586–1639	
.39	Minor writers		
.4	**Post-Elizabethan**	**1625–1702**	
.41	Davenant, Sir William	1605–68	
.42	Etherege, Sir George	1637–88	
.43	Crowne, John	1644–99	
.44	Wycherly, William	1640–1715	
.45	Otway, Thomas	1651–85	
.46	**Congreve, William**	1670–1729	
.47	Vanbrugh, Sir John	1666–1726	
.48	Farquhar, George	1678–1707	
.49	Minor writers		
.5	**Queen Anne** Early 18th century	**1702–45**	
.51	Dennis, John	1657–1734	
.52	Southerne, Thomas	1660–1746	
.53	Centlivre, Mrs Susannah (Freeman)	1668–1723	
.54	Cibber, Colley	1671–1757	
.55	Rowe, Nicholas	1674–1718	
.56	Gay, John	1688–1732	
.57	Lillo, George	1693–1739	
.58			
.59	Minor writers		
.6	**Later 18th century**	**1745–1800**	
.61	Garrick, David	1716–79	
.62	Foote, Samuel	1721–77	
.63	Colman, George, the elder	1732–94	
.64	Home, John	1724–1808	
.65	Cumberland, Richard	1732–1811	
.66	**Sheridan, Richard Brinsley**	1751–1816	See also 825.64
.67	Inchbald, Mrs Elizabeth (Simpson)	1753–1821	
.68			
.69	Minor writers		
.7	**Early 19th century**	**1800–1837**	
.71	Baillie, Joanna	1762–1851	
.72	Knowles, James Sheridan	1784–1862	
.8	**Victorian period**	**1837–1900**	
.91	**Early 20th century**	**1901–**	

823 English fiction

.1	**Early English**	1066–1400	
.2	**Pre-Elizabethan**	1400–1558	
	More's *Utopia*		
.3	**Elizabethan**	1558–1625	
	Lyly's *Euphues*		
.4	**Post-Elizabethan**	1625–1702	
.41	Harrington, James	1611–77	
.42	**Bunyan, John**	1628–88	
.43	Mackenzie, George	1636–91	
.44	Behn, Aphra	1640–89	
.5	**Queen Anne**	1702–45	
.51	DeFoe, Daniel	1661–1731	
.52	Fielding, Henry	1707–54	
.6	**Later 18th century**	1745–1800	
.61	Richardson, Samuel	1689–1761	
.62	Sterne, Laurence	1713–68	
.63	Smollett, Tobias George	1721–71	
.64	**Goldsmith, Oliver**	1728–74	
	See also 821.64 and 824.66		
.65	Mackenzie, Henry	1745–1831	
.66	Arblay, Frances (Burney), madame d'	1752–1840	
.67			
.68			
.69	Minor writers		
.7	**Early 19th century**	1800–37	
.71	Lewis, Matthew Gregory	1775–1818	
.72	Edgeworth, Maria	1767–1849	
.73	**Scott, Sir Walter**	1771–1832	See also 821.74
.74	Austen, Jane	1775–1817	
.75	Porter, Jane	1776–1850	
.76	Peacock, Thomas Love	1785–1866	
.77	Galt, John	1779–1839	
.78	Marryat, Frederick	1792–1848	
.79	Minor writers		
.8	**Victorian period**	1837–1900	
.81	Brontë, Charlotte	1816–55	
.82	**Thackeray, William Makepeace**	1811–63	
.83	**Dickens, Charles**	1812–70	
.84	Lytton, Edward George Bulwer, 1st baron	1803–73	
.85	Kingsley, Charles	1819–75	
.86	Beaconsfield, Benjamin Disraeli, 1st earl of	1805–81	
.87	Trollope, Anthony	1815–82	
.88	Cross, Mary Ann (Evans) Lewes [George Eliot]	1819–80	
.89	Minor writers		
.91	**Early 20th century**	1901–	

824 English essays

.3	**Elizabethan 1558–1625**		
	Francis Bacon 1561–1626		
.4	**Post-Elizabethan 1625–1702**		
	John Locke 1632–1704		
.5	**Queen Anne 1702–45**		
.51	Shaftsbury, Anthony Ashley Cooper, 3d earl of	1671–1713	
.52	**Addison, Joseph**	1672–1719	
.53	Steele, Sir Richard	1671–1729	
.54	Budgell, Eustace	1686–1737	
.55			
.56			
.57			
.58			
.59			
.6	**Later 18th century 1745–1800**		
.61	Moore, Edward	1712–57	
.62	Kames, Henry Home, lord	1696–1782	
.63	**Johnson, Samuel**	1709–84	
.64	Hume, David	1711–76	See also 192.4
.65	Hawkesworth, John	1715–73	
.66	Goldsmith, Oliver	1728–74	
	See also 821.64 and 823.64		
.67	Gibbon, Edward	1737–94	
.68			
.69	Minor writers		
.7	**Early 19th century 1800–37**		
.71	Mackintosh, Sir James	1765–1832	
.72	Smith, Sydney	1771–1845	
.73	Jeffrey, Francis, lord	1773–1850	
.74	Brougham, Henry, 1st baron	1778–1868	
.75	**Lamb, Charles**	1775–1834	
.76	Hazlitt, William	1778–1830	
.77	Hunt, Leigh	1784–1859	
.78			
.79	Minor writers		
.8	**Victorian period 1837–1900**		
.81	De Quincey, Thomas	1785–1859	
.82	Carlyle, Thomas	1795–1881	
.83	Macaulay, Thomas Babington, 1st baron	1800–59	
.84	Helps, Sir Arthur	1817–75	
.85	Arnold, Matthew	1822–88	
.86	Ruskin, John	1819–1900	
.87			
.88			
.89	Minor writers		
.91	**Early 20th century 1901–**		

825 English oratory

For 'speakers' see 808.5

Subdivided by periods like 821

.6	**Later 18th century 1745–1800**		
.61	Chatham, William Pitt, 1st earl of	1708–78	
.62	**Burke, Edmund**	1729–97	
.63	Fox, Charles James	1749–1806	
.64	**Sheridan, Richard Brinsley**	1751–1816	See also 822.66
.65	Grattan, Henry	1750–1820	
.66	Pitt, William	1759–1806	

826 English letters

Subdivided by periods like 821

.2	**Pre-Elizabethan**	1400–1558	
	Paston letters		
.5	**Queen Anne 1702–45**		
.51	Montagu, Lady Mary (Pierrepont) Wortley	1690–1762	
.52	Chesterfield, Philip Dormer Stanhope, 4th earl of	1694–1773	
.53			
.6	**Later 18th century 1745–1800**		
.61	Orford, Horace Walpole, 4th earl of	1717–97	
.62	Montagu, Mrs Elizabeth (Robinson)	1720–1800	

827 English satire and humor

.2	**Pre-Elizabethan 1400–1558**	
.21	Barclay, Alexander	1475–1552
.3	**Elizabethan 1558–1625**	
.31	Gascoigne, George	1537–77
.32	Harington, Sir John	1561–1612
.33	Hall, Joseph	1574–1656
.34	Marston, John	1575–1634
.35	Donne, John	1573–1631
.36		
.37		
.38		
.39		
.4	**Post-Elizabethan 1625–1702**	
.41	Wither, George	1588–1667
.42	**Butler, Samuel**	1612–80
.43	Marvell, Andrew	1620–78
.44	D'Urfey, Thomas	1625–1723
.45	Oldham, John	1653–83
.46	Brown, Thomas	1663–1704
.47	King, William	1663–1712
.48	Garth, Sir Samuel	1665–1719
.49	Minor writers	

827.5	**Queen Anne 1702-45**		
.51	Ward, Edward	1667–1731	
.52	**Swift Jonathan**	1667–1745	
.53	Mandeville, Bernard de	1670–1733	
.54	Arbuthnot, John	1675–1735	
.55	**Pope, Alexander**	1688–1744	See also 821.53
.56			
.57			
.58			
.6	**Later 18th century 1745–1800**		
.61	Churchill, Charles	1733–65	
.62	Amory, Thomas	1691–1788	
.63	Whitehead, Paul	1710–74	
.64	Junius *pseud.*	1679–1772	
.65	Wolcott, John [Peter Pindar]	1738–1819	
.66			
.67			
.68			
.7	**Early 19th century 1800–37**		
.71	Gifford, William	1757–1826	
.72	Hood, Thomas	1798–1845	
.73			
.74			
.75			
.76			
.8	**Victorian 1837–1900**		
.81	Jerrold, Douglas	1803–57	
.82			
.83			
.84			
.85			
.86			
.91	**Early 20th century 1901–**		

828 English miscellany

Anecdotes, ana, epigrams, quotations, etc. if illustrativ of any special subject (e. g. biografy, history, science, art), go with that subject. If general they go in 828; if limited to any period, they take the same divisions as 821. For riddles, see 398.6; Proverbs, see 398.9. The same rule applies to other languages in 838, 848, etc.

829 Anglo-Saxon literature

.1	**Poetry**
.2	**Cædmon**
.3	**Beowulf**
.4	**Cynewulf**
.5	**Homilies and religious**
.6	**Ælfric**
.7	**Alfred the Great**
.8	**Miscellaneous**
.9	**Historic and biografic**

830 German literature

830.1 Philosofy .2 Compends .3 Dictionaries .4 Essays, lectures and addresses on German literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

831 German poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic .06 Descriptiv .07 Satiric and humorous .08 Collections .09 History of German poetry

.1	**Before the Crusades —1150**	
.11	*Hildebrandslied*	
.12	Otfried	
.13	*Ludwigslied*	
.14	*Muspilli*	
.2	**Middle high 1150–1300**	
.21	*Nibelungenlied*	
.22	*Gudrun*, and minor folk epics	
.23	Heinrich von Veldeke	–1200 See also 839.3112
.24	Wolfram von Eschenbach	
.25	Gottfried von Strassburg	
.26	Hartmann von Aue	1170–1220
.27	Walther von der Vogelweide	1170–1230
.28	Ulrich von Lichtenstein	1199–1276
.29	Minor writers	
.3	**Period of decline 1300–1517**	
.31	Horneck, Ottokar von	
.32	Hadamar von Laber	
.33	Hermann von Sachsenheim	–1458
.34	Büheler, Hans *Die sieben weisen meister*	1414–
35	Kaspar von der Röhn *Das heldenbuch*	
.36	*Theuerdank*	
.37	*Die Haimonskinder*	
.38	Mastersingers	
.39	Minor writers	
.4	**Reformation; new high 1517–1625**	
.41	Agricola, Martin	1486–1556
.42	Waldis, Burkard	1490–1558
.43	Alberus, Erasmus	1500–53
.44	**Sachs, Hans**	1494–1576
.45	Ringwaldt, Bartholomäus	1530–99
.46	Rollenhagen, Georg	1542–1609
.47	Andreä, Johann Valentin	1586–1654
.5	**Period of imitation 1625–1750**	
	The Silesian schools	
.51	Opitz von Boberfeld, Martin	1597–1639
.52	Flemming, Paul	1609–40
.53	Logau, Friedrich von	1604–55
.54	Gerhardt, Paul	1607–76
.55	Hofmannswaldau, Christian Hofmann von	1618–79
.56	Zesen, Philipp von	1619–89
.57	Brockes, Barthold Heinrich	1680–1747
.58	Bodmer, Johann Jakob	1698–1783
.59	Minor writers	

831.6	**Classic period 1750–1830**	
	For Göthe and Schiller, see 832.6	
.61	Gellert, Christian Fürchtegott	1715–69
.62	**Klopstock, Friedrich Gottlieb**	1724–1803
.63	Bürger, Gottfried August	1748–94
.64	**Herder, Johann Gottfried von**	1744–1803
.65	Voss, Johann Heinrich	1751–1826
.66	Körner, Karl Theodor	1791–1813
.67	Hölderlin, Johann Christian Friedrich	1770–1843
.68	Platen Hallermünde, August, graf von	1796–1835
.69	Minor writers	
.7	**Postclassic period 1830–56**	
.71	Arndt, Ernst Moritz	1769–1860
.72	Eichendorff, Joseph, freiherr von	1788–1857
.73	Uhland, Johann Ludwig	1787–1862
.74	Rückert, Friedrich	1789–1866
.75	**Heine, Heinrich**	1799–1856
.76	Niembsch von Strehlenau, Nikolaus	1802–50
.77	Auersperg, Anton Alexander, graf von [Anastasius Grün]	1806–81
.78	Freiligrath, Ferdinand	1810–76
.79	Minor writers	
.8	**Later 19th century 1856–1900**	
.81	Schefer, Leopold	1784–1862
.82	Kinkel, Johann Gottfried	1815–82
.83	Geibel, Emanuel	1815–84
.84	Bodenstedt, Friedrich Martin	1819–92
.85		
.86		
.87		
.88		
.89	Minor writers	
.91	**Early 20th century 1901–**	

832 German drama

.5	**Period of imitation 1625–1750**	
.51	Gryphius, Andreas	1616–64
.52	Lohenstein, Daniel Casper	1635–83
.53	Weise, Christian	1642–1708
.54	Gottsched, Johann Christoph	1700–76
.55	Gottsched, Luise Adelgunde Victorie (Culmus)	1713–62
.6	**Classic period 1750–1830**	
.61	**Lessing, Gotthold Ephraim**	1729–81
.62	**Göthe, Johann Wolfgang von**	1749–1832
.63	**Schiller, Johann Christoph Friedrich**	1759–1805
.64	Klinger, Friedrich Maximilian	1753–1831
.65	Iffland, August Wilhelm	1759–1814
.66	Kotzebue, August Friedrich Ferdinand von	1761–1819
.67	Werner, Friedrich Ludwig Zacharias	1768–1823
.68	Kleist, Heinrich Bernt Wilhelm von	1777–1811
.69	Minor writers	

832.7	**Postclassic period 1830–56**	
.71	Grabbe, Christian Dietrich	1801–36
.72	Griepenkerl, Wolfgang Robert	1810–36
.73	Grillparzer, Franz	1791–1872
.74	Birch-Pfeiffer, Charlotte	1800–68
.75	Münch-Bellinghausen, Eligius Franz Joseph [Friedrich Halm]	1806–66
.76	Laube, Heinrich	1806–84
.77	Hebbel, Friedrich	1815–63
.78	Gutzkow, Karl Ferdinand	1811–78
.79	Minor writers	
.8	**Later 19th century 1856–1900**	
.81	Benedix, Julius Roderich	1811–73
.82	Mosenthal, Salomon Hermann	1821–77
.83	Brachvogel, Albert Emil	1824–78
.84	Gottschall, Karl Rudolph	1823–1909
.85	Lindau, Paul	1839–
.89	Minor writers	
.91	**Early 20th century 1901–**	

833 German fiction

.5	**Period of imitation 1625–1750**	
.51	Buchholtz, Andrew Heinrich	1607–71
.52	Grimmelshausen, Hans Jakob Christoffel von	1625–76
.53	Anselm, Heinrich	1653–97
.54	*Robinsonaden*	
.55	*Der Neue Amadis*	
.6	**Classic period 1750–1830**	
.61	Wieland, Christoph Martin	1733–1813
.62	Richter, Jean Paul Friedrich	1763–1825
.63	Hardenberg, Friedrich von [Novalis]	1772–1801
.64	Hoffmann, Ernst Theodor Wilhelm	1776–1822
.65	La Motte Fouqué, Friedrich H; C;	1777–1843
.66	Arnim, Ludwig Achim von	1781–1831
.67	Hauff, Wilhelm	1802–27
.68	Chamisso, Adelbert von	1781–1838
.69	Minor writers	
.7	**Postclassic period 1830–56**	
.71	Zschokke, Johann Heinrich Daniel	1771–1848
.72	Brentano, Clemens	1778–1842
.73	Tieck, Ludwig	1773–1853
.74	Postl, Karl [Charles Sealsfield]	1793–1864
.75	Häring, Wilhelm [Wilibald Alexis]	1798–1871
.76	Hahn-Hahn, Ida, gräfin von	1805–80
.77	Gerstäcker, Friedrich	1816–72
.78	Hackländer, Friedrich Wilhelm	1816–77
.79	Minor writers	

833.8	**Later 19th century 1856–1900**	
.81	Auerbach, Berthold	1815–82
.82	Freytag, Gustav	1816–95
.83	Scheffel, Joseph Viktor von	1826–96
.84	Spielhagen, Friedrich	1829–1911
.85	Heyse, Paul Johann Ludwig	1830–1914
.86	Ebers, Georg	1837–98
.89	Minor writers	
.91	**Early 20th century 1901–**	

834 German essays Subdivided by periods like 831

835 German oratory " "

836 German letters " "

837 German satire and humor

.2	**Middle high: minnesingers 1150–1300**	
.21	[Stricker, Der] *Der Pfaffe Amis* und *Beispiele*	
.22	*Salomon und Morolf*	
.3	**Period of decline 1300–1517**	
.31	*Reineke Vos* See also 839.371	
.32	Brant, Sebastian	1458–1521
.4	**Reformation: new high 1517–1625**	
.41	Murner, Thomas [Tyll Eulenspiegel]	1475–1537
.42	Fischart, Johann	1550–89
.5	**Period of imitation 1625–1750**	
.51	Moscherosch, Johann Michael	1601–69
.52	Rachel, Joachim	1618–69
.53	Wernicke, Christian	1660–1720
.54	Liscow, Christian Ludwig	1701–60
.6	**Classic period 1750–1830**	
.61	Rabener, Gottlieb Wilhelm	1714–71
.62	Blumauer, Aloys	1755–98

838 German miscellany

See 828, note

839 Minor Teutonic literatures

Subdivided by form, poetry, drama, etc. like 830

.1 **Low German**

.2 **Frisian Old Saxon**

.3 **Dutch literature Flemish**

.31 Dutch poetry

.311 **Middle ages** 1200–1450
1 Jacob van Maerlant 1235–91 (2 Heinrije van Veldeke 1200, see 831.23) 3 Jan van Brabant 1250–94 4 Melis Stoke 1310 5 Dirc Potter 1428

.312 **Chambers of rhetoric** 1450–1600
1 Antonius de Rovere 1482 2 Anna Bijns 1500 3 Matthijs de Castelein 1488–1548 4 Cornelis Everaert 1550 5 Jan Baptist Houwaert 1533–99 6 Dirk Volkerszoon Coornhert 1522–90 7 Philipp Marnix 1538–98 8 Cornelis van Ghistele 1600 9 Minor writers

.313 **Period of the Republic** 1600–1700
1 **Jacob Cats,** 1577–1660 2 **Joost van der Vondel** 1587–1679 3 Marie Tesselschade Visscher 1594–1649 4 **Constantijn Huygens** 1596–1687 5 Reyer Anslo 1626–69 6 Geraert Brandt 1626–85 7 Jan Antoniszoon van der Goes (Antonides) 1647–84 9 Minor writers

.314 **Poetic societies** 1700–1800
1 Lucas Rotgans 1654–1710 2 Hubert Corneliszoon Poot 1689–1733 3 Arnold Hoogvliet 1687–1763 4 Sybrand Feitama 1694–1758 5 Willem van Haren 1710–68 6 Jacob Bellamy 1757–86 7 Hieronymus van Alphen 1746–1803 9 Minor writers

.315 **Modern period** 1800–
1 Willem Bilderdijk 1756–1831 2 Jan Frederik Helmers 1767–1813 3 Cornelis Loots 1765–1834 4 Hendrik Tollens 1780–1856 5 Isaac da Costa 1798–1860 6 Jan Jacob Lodewijk ten Kate 1819–89 9 Minor writers

.32 Dutch drama

.323 **Period of the Republic** 1600–1700
1 **Gerbrand Adriaenszoon Bredero** 1585–1618 2 **Corneliszoon Hooft** 1581–1647 3 Samuel Costa 1580–1650 4 Jan Vos 1620–67 5 Guillelmus Ogier 1619–89 6 Joachim Oudaan 1628–92 9 Other

.324 **Poetic societies** 1700–1800
1 Pieter Langendijk 1683–1756 2 Andries Pels 3 Balthasar Huydecoper 1695–1778 4 Onno Zwier van Haren 1713–79 5 Jan Nomsz 1738–1803 9 Minor writers

.325 **Modern period** 1800–
1 Samuel Iperuszoon Wiselius 1769–1845 2 Helvetius van den Bergh 1795–1865 3 Hendrik Jan Schimmel 1825–1906

.33 Dutch fiction

.334 **Poetic societies** 1700–1800
1 Elisabeth Bekker Wolff 1738–1804 2 Agatha Deken 1741–1804 3 Rhijnvis Feith 1753–1824

.335 **Modern period** 1800–
1 Adriaan Loosjes 1761–1818 2 Jacob Vosmaer 1783–1834 3 Jan Frederik Oltmans 1800–54 4 Jacob van Lennep 1802–68 5 Hendrik Conscience 1812–83 6 Anna Louisa Geertruida Bosboom-Toussaint 1812–86

.34 Dutch essays

.344 **Poetic societies** 1700–1800
Justus van Effen 1684–1735

.345 **Modern period** 1800–
1 Johannes Henricus van der Palm 1763–1840 2 Reinier Cornelis Bakhuizen van den Brink 1810–65 3 Everhardus Johannes Potgieter 1808–75 4 Nicolaas Beets 1814–1903 5 Coenraad Busken Huet 1826–86

.37 Dutch satire and humor

.371 **Middle ages** 1200–1450
Reinaert (van den vos Reinaerde) see 837.31

.374 **Poetic societies** 1700–1800
Arend Simonszoon Fokke 1755–1812

839.38 Dutch miscellany

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification, books are placed with their subjects, theology, history, etc.

.381 **Middle ages** 1200–1450

Jan van Boendale (Jan de Clerc) *Chronicles*, 1280–1365

.384 **Poetic societies** 1700–1800

Simon Stijl, *History*, 1731–1804; Jan Wagenaar, *History*, 1709–73

.4 Platt Deutsch

.5 Scandinavian

.6 Old Norse Icelandic Faroese

.7 Swedish literature

.71 Swedish poetry

.711 **Middle ages** 1200–1520

1 Nicolaus Hermanni 1391 2 Bishop Tomas 1443 3 Ericus Olai 1486 4 Ballads (Folkvisor)

.712 **Reformation** 1520–1640

1 Olaus Petri 1496–1552 2 Laurentius Petri 1499–1573

.713 **Age of Stjernhjelm** 1640–1740

1 **Georg Stjernhjelm** 1598–1672 2 Lars Johansson (Lucidor) 1640–74 3 Haquin Spegel 1645–1714 4 Israel Holmström 1660–1708 5 Gunno Eurelius Dahlstjerna 1661–1709 6 Johan Runius 1679–1713 7 Jacob Frese 1691–1729 8 Samuel von Triewald 1688–1743 9 Minor writers

.714 **Age of Dalin** 1740–80

1 Olof Carelius 1758 2 **Olof von Dalin** 1708–63 3 Hedvig Charlotta Nordenflycht 1718–63 4 Anders Odel 1718–73 5 Gustaf Filip Creutz 1729–85 6 Gustaf Fredrik Gyllenborg 1731–1808 7 Olof Bergklint 1733–1805 9 Minor writers

715 **Age of Gustavus** 1780–1800

1 **Karl Mikael Bellman** 1740–1795 2 Johan Henrik Kellgren 1751–95 3 Bengt Lidner 1757–93 4 Johan Gabriel Oxenstjerna 1750–1818 5 Tomas Thorild 1759–1808 6 Anna Maria Lenngren 1754–1817 7 Karl Gustaf af Leopold 1756–1829 8 Frans Mikael Frazén 1772–1847 9 Minor writers

.716 **Modern period** 1800–

1 Per Henrik Ling 1776–1839 2 Johan Olof Wallin 1779–1839 3 Esaias Tegnér 1782–1846 4 Erik Johan Stagnelius 1793–1823 5 Per Daniel Amadeus Atterbom 1790–1855 6 Karl Jonas Ludwig Almqvist 1793–1866 7 Johan Ludwig Runeberg 1804–77 8 Karl Vilhelm Böttiger 1807–79 9 Minor writers

.72 Swedish drama

.722 **Reformation** 1520–1640

1 Johan Messenius 1579–1637 2 Magnus Olai Asteropherus –1647 3 Andreas Johannis Prytz 1590–1655

.723 **Age of Stjernhjelm** 1640–1740

Isak Börk –1701

.725 **Age of Gustavus** 1780–1800

1 Karl Israel Hallman 1732–1800 2 Gustaf 3 (king) 1746–92 3 Olof Kexél 1748–96 4 Karl Evallsson 1756–1806

.726 **Modern period** 1800–

1 Johan Börjesson 1790–1865 2 Bernhard von Beskow 1796–1868 3 August Teodor Blanche 1811–68 4 Johan Kristofer Jolin 1818–84 5 Frans Hedberg 1828–1908 6 Per Johan Edvard Bäckström 1841–86

.73 Swedish fiction

.734 **Age of Dalin** 1740–1780

1 Jakob Henrik Mörk 1714–63 2 Jakob Vallenberg 1746–78

.735 **Modern period** 1800–

1 Sofia Margareta von Knorring 1797–1848 2 Magnus Jakob Crusenstolpe 1795–1865 3 **Fredrika Bremer** 1801–65 4 Karl Anton Wetterbergh (Onkel Adam) 1804–89 5 Emilie Flygare Carlén 1807–92 6 Zakris Topelius 1818–98 7 Viktor Rydberg 1829–95 9 Minor writers

839.74 Swedish essays

.746 **Modern period** 1800–

1 Benjamin Karl Henrik Höijer 1767–1812 2 Lorenzo Hammarsköld 1785–1827 3 Bernhard Elis Malmström 1816–65 4 Karl Julius Lénström 1811–93 5 Gustaf Häkan Jordan Ljunggren 1823–1905 6 Karl Rupert Nyblom 1832–1907

.77 Swedish satire and humor

.776 **Modern period** 1800–

1 Johan Anders Wadman 1777–1837 2 Erik Sjöberg (Vitalis) 1794–1828 3 Kristian Erik Fahlcrantz 1790–1866 4 Vilhelm August Detlof von Braun 1813–60 5 Gunnar Wennerberg 1817–1901

.78 Swedish miscellany

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification, books are placed with their subjects, theology, history, etc.

.781 **Middle ages** 1200–1520

Canon Mattias, *Bible translation*, –1350; Peder Månsson, *Encyclopedia*, –1534

.782 **Reformation** 1520–1640

1 Peder Andersson Svart, *History*, –1562 2 Erik Göransson Tegel, *History*, 1580–1636 3 Ægidius Girs, *History*, 1580–1639 4 Gustavus Adolphus (king), *History*, 1594–1632

.783 **Age of Stjernhjelm** 1640–1740

1 Olof Rudbeck, *Medicin*, 1630–1702 2 Urban Hjärne 1641–1724 3 Johan Peringskjöld, *History*, 1654–1720 4 Anders Rydelius, *Philosofy* 1671–1738 5 Anders Celsius, *Astronomy*, 1701–44 6 Emanuel Svedenborg, *Theology*, 1688–1772

784 **Age of Dalin** 1740–1780

1 Karl Gustaf Tessin, *History*, 1695–1770 2 Karl von Linné, *Botany* 1707–78 3 Johan Ihre, *Philology*, 1707–80 4 Sven Lagerbring *History*, 1707–87 5 Anders Johan von Höpken, *History*, 1712–89, 6 Olof Celsius, *History*, 1716–94 7 Anders af Botin, *History*, 1724–90 8 Torbern Olof Bergman, *Chemistry*, 1735–84 Karl Vilhelm Scheele, *Chemistry*, 1742–86

.786 **Modern period** 1800–

1 Erik Gustaf Geijer, *History*, 1783–1847 2 Anders Magnus Strinnholm, *History*, 1786–1862 3 Anders Fryxell, *History*, 1795–1881 4 Frederik Ferdinand Carlson, *History*, 1811–87

.8 Danish and Norwegian literature

.81 Danish and Norwegian poetry

.811 **Middle ages** 1100–1500

1 Anders Sunesen 2 Ballads (Kjæmpevise:)

.812 **Reformation** 1500–1560

Hans Tavsen 1494–1561

.813 **Learned period** 1560–1700

1 Anders Arrebo 1587–1637 2 Anders Bording 1619–77 3 Peder Syv 1631–1702 4 Thomas Kingo 1634–1703 5 Peder Dass 1647–1708 6 Dorthe Engelbrektsdatter 1635–1716 7 Sören Terkelsen 1661 8 Jacob Vorm 1642–93

.814 **Age of Holberg** 1700–1750

1 Jörgen Sorterup 1662–1723 2 Töger Reenberg 1656—1742 3 Kristian Falster 1690–1752 4 Hans Adolph Brorson 1694–1764 5 Ambrosius Stub 1705–58 6 Kristian Frederik Wadskjær 1712–79

.815 **Period of enlightenment** 1750–1800

1 Kristian Braunmann Tullin 1728–65 2 **Johannes Evald** 1743–81 3 Johan Herman Vessel 1742–85 4 Edvard Storm 1749–94 5 Kristen Henriksen Pram 1756–1821 6 Jens Baggesen 1764–1826 7 Knud Lyne Rahbek 1760–1830 8 Malte Konrad Bruun 1775–1826 9 Minor writers

816 **Modern period** 1800–

1 **Adam Gottlob Oehlenschlager** 1779–1850 2 Bernhard Severin Ingemann 1789–1862 3 Nicolai Frederik Severin Grundtvig 1783–1872 4 Johannes Carsten Hauch 1790–1871 5 Henrik Wergeland 1808–45 6 Ludvig Bödtcher 1793–1874 7 Frederik Paludan-Müller 1809–76 8 Carl Ploug 1813–94 9 Minor writers

839.82 Danish and Norwegian drama

.823 **Learned period** 1560–1700
1 Hieronimus Justesen Rauch 1539–1607 2 Hans Kristensen Sthen 1544–1603 3 Peder Jensen Hegelund 1542–1614 4 Hans Thomsen Stege –1628 5 Jens Lönberg 1663–1700

.824 **Age of Holberg** 1700–1750
1 **Ludvig Holberg** 1684–1754

.825 **Period of enlightenment** 1750–1800
1 Charlotte Dorothea Biehl 1731–88 2 Johan Nordal Bruun 1745–1816 3 Ole Johan Samsöe 1759–96 4 Enevold Falsen 1755–1808 5 Thomas Thaarup 1749–1821 6 Kristian Levin Sander 1756–1819 7 Olaf Kristian Olufsen 1764–1827 8 Peter Andreas Heiberg 1758–1841 9 Minor writers

.826 **Modern period** 1800–
1 Casper Johannes Boye 1791–1853 2 Johan Ludvig Heiberg 1791–1860 3 Henrik Hertz 1798–1870 4 Thomas Overskou 1798–1873 5 Christian Knud Frederik Molbech 1821–88 6 Henrik Ibsen 1828–1906

.83 Danish and Norwegian fiction

.836 **Modern period** 1800–
1 Thomasine Christine Gyllembourg-Ehrensvärd 1773–1856 2 Steen Steensen Blicher 1782–1848 3 Christian Winther 1796–1876 4 **Hans Christian Andersen** 1805–75 5 Meyer Aaron Goldschmidt 1819–87 6 Holger Drachmann 1846–1908 7 **Björnstjerne Björnson** 1832–1910

.84 Danish and Norwegian essays

.845 **Period of enlightment** 1750–1800
Rasmus Nyerup 1759–1829

.846 **Modern period** 1800–
1 Niels Mathias Petersen 1781–1862 2 Sören Aaby Kierkegaard 1813–55 3 Rudolph Keyser 1803–64 4 Peter Andreas Munch 1810–63 5 Johan Sebastian Cammermeyer Welhaven 1807–73 6 Georg Morris Cohen Brandes 1842–

.87 Danish and Norwegian satire and humor

.875 **Period of enlightenment** 1750–1800
1 Peder Magnus Trojel 1743–96 2 Peder Kofoed Trojel 1754–84 3 Thomas Kristoffer Bruun 1750–1834

.88 Danish and Norwegian miscellany
The subdivisions of 8 show the leading writers in other branches of knowledge. In classification, books are placed with their subjects, theology, history, etc.

.881 **Middle ages** 1100–1500
1 Saxo (Longus) Grammaticus, *History*, –1208 2 Svend Aagesen, *History*

.882 **Reformation** 1500–1560
1 Kristiern Pedersen (Father of Danish literature) 1480–1554 2 Povel Eliesen, *Sermons*, 1480– 3 Hans Mikkelsen, *Bible translation*, –1532 4 Peder Plade (Palladius) 1503–60 5 Henrik Smith, *Medicin*, –1563

.883 **Learned period** 1560–1700
History: Hans Svaning 1508–1584 Anders Sörensen Vedel 1542–1616 Peder Klausen 1545–1614 Arild Hvitfeld 1549–1609 Klaus Lyskander 1558–1623 Ole Worm 1588–1654 Peder Resen 1625–88
Theology: Niels Hemmingsen 1513–1600 Holger Rosenkranz 1574–1642 Jesper Brochmand 1585–1652
Science: Tyge Brahe, *Astronomy*, 1546–1601 Kaspar Bartholin, *Medicin*, 1585–1629 Thomas Bartholin, *Anatomy*, 1616–80 Ole Borch, *Medicin*, 1626–90 Niels Stensen, *Anatomy*, 1638–86 Ole Römer, *Astronomy*, 1644–1710

.884 **Age of Holberg** 1700–1750
1 Erik Pontoppidan, *History*, 1698–1764 2 Jacob Langebek, *History*, 1710–75 3 Frederik Kristian Eilschov, , 1725–50 4 Gerhard Schöning, *History*, 1722–80 5 Peder Frederik Suhm, *History*, 1728–98

.9 **Gothic**

840 French literature

840.1 Philosofy .2 Compends .3 Dictionaries .4 Essays, lectures, and addresses on French literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

841 French poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic .06 Descriptiv .07 Satiric and humorous .08 Collections .09 History of French poetry

.1	**Early French 842–1400**	
.11	**Chanson de Roland** *Chanson de geste*	
.12	Wace, Robert	
.13	Marie de France	
.14	Chrestien de Troyes	–1191
.15	Quesnes de Bethune	–1228
.16	Thibaut 4, comte de Champagne	1201–53
.17	Rutebeuf	1230–
.18	**Roman de la rose**	
	Guillaume de Loris, 1195–1260 Jean de Meung, 1280–1320	
.19	Minor poets	
.2	**Transition period 1400–1500**	
.21	Chartier, Alain	1386–1458
.22	Orléans, Charles duc d'	1391–1465
.23	Coquillart, Guillaume	1421–1510
.24	Baude, Henri	1430–95
.25	Villon, François	1431–85
.26		
.27		
.28		
.29	Minor poets	
.3	**Renaissance 1500–1600**	
.31	Daurat, Jean	1510–88
.32	Du Bellay, Joachim	1524–60
.33	Belleau, Remy	1528–77
.34	Ronsard, Pierre de	1524–85
.35	Thiard, Pontus de	1521–1605
.36	Baïf, Jean Antonie de	1532–89
.37	Saluste du Bartas, Guillaume de	1544–90
.38	Desportes, Philippe	1546–1606
.39	Minor poets	
.4	**Classic period 1600–1715**	
.41	Malherbe, François de	1555–1628
.42	Maynard, François	1582–1646
.43	Racan, Honorat de Bueil, marquis de	1589–1670
.44	Chapelain, Jean	1595–1674
.45	**La Fontaine, Jean de**	1621–95
.46	Deshoulières, Antoinette (du Ligier de la Garde), Madame	1637–94
.47	Chaulieu, Guillaume Amfrye de	1639–1720
.48		
.49	Minor poets	

841.5	**18th century 1715–89**	
.51	Rousseau, Jean Baptiste	1670–1741
.52	Racine, Louis	1692–1763
.53	Pompignan, Jean Jacques de Franc, marquis de	1709–84
.54	Delille, Jacques	1738–1813
.55	Roucher, Jean Antoine	1745–94
.56	Chénier, André Marie de	1762–94
.57	Parny, Evariste Désiré Desforges, vicomte de	1753–1814
.58		
.59	Minor poets	
.6	**Revolution and empire 1789–1815**	
.61	Lebrun, Ponce Denis Écouchard	1729–1807
.62	Fontanes, Louis, marquis de	1757–1821
.63	Parseval Grandmaison, François Auguste	1759–1834
.64	Luce de Lancival, Jean Charles Julien	1764–1810
.65	Désaugiers, Marc Antoine Madeleine	1772–1827
.66	Campenon, François Nicolas Vincent	1772–1843
.67	Millevoye, Charles Hubert	1782–1816
.68		
.69	Minor poets	
.7	**Constitutional monarchy 1815–48**	
.71	**Béranger, Pierre Jean de**	1780–1857
.72	Delavigne, Jean François Casimir	1793–1843 See 842.72
.73	Deschamps, Émile	1791–1871
.74	Lamartine, Alphonse Marie Louis de Prat de	1792–1869
.75	Reboul, Jean	1796–1864
.76	Vigny, Alfred Victor, comte de	1799–1863 See 842.75
.77	Musset, Louis Charles Alfred de	1810–57 See 842.76
.78	**Hugo, Victor Marie, comte**	1802–85
	See also 842.78 and 843.78	
.79	Minor poets	
.8	**Later 19th century 1848–1900**	
.81	Laprade, Pierre Marin Victor Richard de	1812–83
.82	Dupont, Pierre	1821–70
.83	Banville, Théodore Faullain de	1820–91
.84	Sully-Prudhomme, René François Armand	1839–1907
.85	Coppée, Francis Édouard Joachim	1842–1908 See 842.88
.86	Deroulède, Paul	1846–1914
.87		
.88		
.89	Minor poets	
.91	**Early 20th century 1901–**	

842 French drama

.1	**Early French 842–1400**	
.11	Mysteries and miracles	
.12	Adam de la Halle	1240-86
.13	Bodel, Jean	
.14		
.15		
.16		
.17		
.18		
.19	Minor dramatists	

842.2	**Transition period 1400–1500**		
.21	Gresban, Arnoul		
.22	Michel, Jean	–1493	
.23	Gringoire, Pierre	1480–1544	
.24			
.25			
.26			
.27			
.28			
.29	Minor dramatists		
.3	**Renaissance 1500–1600**		
.31	Le Coq, Thomas		
.32	Baïf, Lazare de		
.33	La Peruse, Jean Bastier de	1530–55	
.34	Jodelle, Étienne	1532–73	
.35	Grévin, Jacques	1538–70	
.36	La Taille, Jean de	1540–1608	
.37	Garnier, Robert	1545–1601	
.38	Larivey, Pierre de	1550–1612	
.39	Minor dramatists		
.4	**Classic period 1600–1715**		
.41	**Corneille, Pierre**	1606–84	
.42	**Molière, Jean Baptiste Poquelin,** ***called***	1622–73	
.43	Corneille, Thomas	1625–1709	
.44	Boursault, Edme	1638–1701	
.45	**Racine, Jean**	1639–99	
.46	Brueys, David Augustin de	1640–1723	
.47	Dufresny, Charles Rivière	1648–1724	
.48	Baron, Michel Boyron, *called*	1653–1729	
.49	Minor dramatists		
.5	**18th century 1715–89**		
.51	La Motte, Antoine Houdart de	1672–1731	
.52	Crébillon, Prosper Jolyot de	1674–1762	
.53	Destouches, Philippe Néricault	1680–1754	
.54	Marivaux, Pierre Carlet de Chamblain de	1688–1763	See 843.52
.55	Piron, Alexis	1689–1773	
.56	**Voltaire, François Marie Arouet de**	1694–1778	See 843.54
.57	Sédaine, Michel Jean	1719–97	
.58	Beaumarchais, Pierre Augustin Caron de	1732–99	
.59	Minor dramatists		
.6	**Revolution and empire 1789–1815**		
.61	Ducis, Jean François	1733–1816	
.62	Collin-Harleville, Jean François	1735–1806	
.63	La Harpe, Jean François de	1739–1803	See 844.61
.64	Fabre d'Églantine, Philippe François Nazaire	1755–94	
.65	Andrieux, François Guillaume Jean Stanislas	1759–1833	
.66	Chenier, Marie Joseph	1764–1811	
.67	Picard, Louis Benoît	1769–1828	
68	Lemercier, Louis Jean Népomucène	1771–1840	
69	Minor dramatists		

842.7	**Constitutional monarchy 1815–48**		
.71	Soumet, Alexandre	1788–1845	
.72	Delavigne, Jean François Casimir	1793–1843	See 841.72
.73	Scribe, Augustin Eugène	1791–1861	
.74	Ancelot, Jacques Arsène François Polycarpe	1794–1864	
.75	Vigny, Alfred Victor, comte de	1799–1863	See 841.76
.76	Musset, Louis Charles Alfred de	1810–57	See 841.77
.77	**Dumas, Alexandre, the elder**	1806–70	See 843.76
.78	**Hugo, Victor Marie, comte**	1802–85	
	See also 841.78 and 843.78		
.79	Minor dramatists		
.8	**Later 19th century 1848–1900**		
.81	Labiche, Eugène Marin	1815–88	
.82	Ponsard, François	1824–67	
.83	Augier, Guillaume Victor Émile	1822–89	
.84	Dumas, Alexandre, fils	1824–95	
.85	Bornier, Henri de	1825–1901	
.86	Sardou, Victorien	1831–1908	
.87	Pailleron, Édouard	1834–99	
.88	Coppée, Francis Édouard Joachim	1842–1908	See 841.85
.89	Minor dramatists		
.91	**Early 20th century 1901–**		

843 French fiction

.2	**Transition period 1400–1500**		
.21	Christine de Pisan	1363–1431	
.22	Jean de Tuim		
.23	La Sale, Antoine de	1398–1462	
.24	Chastelain, Georges	1403–75	
.25			
.26			
.27			
.28			
.29	Minor writers		
.3	**Renaissance 1500–1600**		
.31	Marguerite de Navarre	1492–1549	
.32	Desperriers, Bonaventure	1500–44	
.33	Herberay, Nicolas d'	–1552	
.34	Du Fail, Noël	–1585	
.35	Bouchet, Guillaume	1526–1606	
.36	Beroalde de Verville, François	1558–1612	
.37			
.38			
.39	Minor writers		
.4	**Classic period 1600–1715**		
.41	Urfé, Honoré d'	1568–1625	
.42	Gomberville, Marin Le Roy de	1600–47	
.43	La Calprenède, Gauthier de Costes de	1602–63	
.44	Scudéry, Georges de	1601–67	
.45	Scudéry, Madeleine de	1607–1701	
.46	Cyrano de Bergerac, Savinien	1620–55	
.47	Perrault, Charles	1628–1703	
.48	Lafayette, Marie Madeleine Pioche de la Vergne, comtesse de	1634–93	
.49	Minor writers		

843.5 **18th century 1715–89**

.51	Le Sage, Alain René	1668–1747	
.52	Marivaux, Pierre Carlet de Chamblain de	1688–1763	See 842.54
.53	Prévost d'Exiles, Antoine François	1697–1763	
.54	**Voltaire, François Marie Arouet de**	1694–1778	See 842.56
.55	Crébillon, Claude Prosper Jolyot de, fils	1707–77	
.56	**Rousseau, Jean Jacques**	1712–78	
.57	Restif de la Bretonne, Nicolas Edme	1734–1806	
.58	Florian, Jean Pierre Claris de	1755–94	
.59	Minor writers		
.6	**Revolution and empire 1789–1815**		
.61	St Pierre, Jacques Henri Bernardin de	1737–1814	
.62	**Staël Holstein, Anne Louise Germaine (Necker), baronne de**	1766–1817	
.63	Constant de Rebecque, Henri Benjamin	1767–1830	
.64	Maistre, Xavier de	1763–1852	
.65	Chateaubriand, François Auguste René, vicomte de	1768–1848	
.66			
.67			
.68			
.69	Minor writers		
.7	**Constitutional monarchy 1815–48**		
.71	Beyle, Marie Henri [de Stendhal]	1783–1842	
.72	Nodier, Charles	1790–1844	
.73	**Balzac, Honoré de**	1799–1850	
.74	Sue, Marie Joseph, *called* Eugène	1804–57	
.75	Souvestre, Émile	1806–54	
.76	**Dumas, Alexandre, the elder**	1806–70	See 842.77
.77	Gautier, Théophile	1811–72	
.78	**Hugo, Victor Marie, comte**	1802–85	
	See also 841.78 and 842.78		
.79	Minor writers		
.8	**Later 19th century 1848–1900**		
.81	Mérimée, Prosper	1803–70	
.82	**Dudevant, Amantine Lucile Aurore Dupin [George Sand]**	1804–76	
.83	Feuillet, Octave	1822–90	
.84	Flaubert, Gustave	1821–81	
.85	Erckmann-Chatrian { Erckmann, Émile	1822–99	
	Erckmann-Chatrian { Chatrian, Alexandre	1826–90	
.86	About, Edmond François Valentin	1828–85	
.87	Cherbuliez, Victor	1829–99	
.88	Daudet, Alphonse	1840–97	
.89	Minor writers		
.91	**Early 20th century 1901–**		

844 French essays

.3	**Renaissance 1500–1600**	
.31	**Montaigne, Michel Eyquem de**	1533–92
.4	**Classic period 1600–1715**	
.41	Du Vair, Guillaume	1556–1621
.42	Saint-Évremond, Charles de Marguetel de Saint-Denis de	1613–1703

844.5	**18th century 1715–89**	
.51	Fontenelle, Bernard le Bovier de	1657–1757
.52	Montesquieu, Charles le Secondat, baron de	1689–1755
.53	Alembert, Jean le Rond d'	1717–83
.6	**Revolution and empire 1789–1815**	
.61	La Harpe, Jean François de	1739–1803 See 842.63
.62	Joubert, Joseph	1754–1824
.63	Courier de Méré, Paul Louis	1772–1825
.64	Senancour, Étienne Pivert de	1770–1846
.7	**Constitutional monarchy 1815–48**	
.71	La Mennais, Hugues Félicité Robert de	1782–1854
.72	Villemain, Abel François	1790–1870
.73	Planche, Jean Baptiste Gustave	1808–57
.74	**Sainte Beuve, Charles Augustin**	1804–69
.75	Saint-Marc Girardin	1801–73
.76	Janin, Jules Gabriel	1804–74
.77	Nisard, Jean Marie Napoléon Désiré	1806–88
.8	**Later 19th century 1848–1900**	
.81	Quinet, Edgar	1803–75
.82	Renan, Ernest	1823–92
.83	Taine, Hippolyte Adolphe	1828–93
.91	**Early 20th century 1901–**	

845 French oratory Subdivided by periods like 841

846 French letters Subdivided by periods like 841

847 French satire and humor

.1	**Early French 842–1400**	
.11	Guyot de Provins	
.12	*Roman du Renard* See 837.31 and 839.371	
.13	Deschamps, Eustache	1320–1400
.3	**Renaissance 1500–1600**	
.31	Marot, Clément	1495–1544
.32	**Rabelais, François**	1495–1553
.33	*La Satyre Ménippée*	1594
.34	Aubigné, Théodore Agrippa d'	1550–1630
.35	Regnier, Mathurin	1573–1613
.4	**Classic period 1600–1715**	
.41	Viau, Théophile de	1590–1626
.42	Saint Amant, Marc Antoine Gérard	1594–1661
.43	Scarron, Paul	1610–60
.44	Benserade, Isaac de	1612–91
.45	Furetière, Antoine	1620–88
.46	**Boileau Despréaux, Nicolas**	1636–1711
.47	Regnard, Jean François	1655–1709
.5	**18th century 1715–89**	
.51	Gresset, Jean Baptiste Louis	1709–77
.52	Gilbert, Nicolas Joseph Laurent	1751–80
.7	**Constitutional monarchy 1815–48**	
.71	Barthélemy, August Marseille	1796–1867
.72	Barbier, Henri Auguste	1805–82

848 French miscellany Subdivided by periods like 841

849 Provençal literature

.1 **Provençal poetry**

.11 1st period 900–1100

Poetry in hands of clergy. No folk poetry preservd. Form mainly epic Language not yet fixt. Country under rule of counts, nominally subject to emperor, really independent till 1486, then reunited to France

.111 Epic poetry

Boethius

.112 Lyric poetry

.119 Minor poetry Didactic

.12 Golden age 1100–1300

Poets mainly knights, but after 1250 almost exclusivly burghers. Lyric most important

.121 Romances of chivalry

Girart de Rossilho

.122 Historical poetry

Croisade contre les Albigeois

.123 Romans d'aventures

Flamenca

.124 Lyric poetry

.125	Bernart de Ventadorn, flourisht	about		1140–95
.126	Born, Bertran de	"	"	1180–95
.127	Arnaut, Daniel	"	"	1180–1200
.128	Borneill, Guiraut de	"	"	1175–1220

.129 Minor poetry

Nearly 500 poets named beside anonymous poems. Form prevails over content; great variety of poetic forms. These lyric poets are the real Troubadours

.13 Aftermath 1300–1500

Downfall of language and literature owing to lack of content and to political and social causes, specially the crusade against the Albigenses

.131 Poets of school of Toulouse

Arnaut Vidal, first recipient of the Golden Violet, 1324. Poetry artificial, a craft. Las Leys d'Amors is the code of poetic laws, by Guillem Molinier, chancellor of 'Consistory de la gaya sciensa' establisht at Toulouse 1324. First prize a golden violet. When in danger of perishing, consistory revived in 1484 and poetic exercises styled 'Jeux floraux'

.132 La Noble Leyczon

Religious poetry of Waldenses

.139 Minor poetry

.14 Decadence 1500–

Provençal sinks to position of a dialect despite fitful attempts to revive it, the most recent, that connected with publication of Li Provençalo 1852

.141	Goudouli, Pierre de	1579–1649
.142	Despourrins, Cyprien	1698–1755
.143	Jasmin, Jacques	1798–1864
.144	Roumanille, Joseph	1818–91
.145	Aubanel, Jos. Marie J. Baptiste Théodore	1829–86
.146	Mistral, Frédéric	1830–1914

.149 Minor poetry

849.9 Catalan literature

.91 Catalan poetry

.911 **1st period** 1200–1350

Catalonia before 1137 ruled by French counts, then united to Aragon Language is closely allied to Provençal, in which first poets wrote. Mss scatterd; few as yet printed. Literature begins with James 1 (1213–76) who made Catalan the state language

For Ramon Muntaner see 849.9813

1 Raimon Lull 1225–1315 2 Febler 1250 9 Minor poets

.912 **2d period** 1350–1450

Imitation of Neo Provençal, French and Italian, specially of Dante, Petrarch and Boccaccio. Some flashes of originality. Fra Rocaberti. Imitation of Dante

.913 **Age of perfection** 1450–

From 16th century, Catalan literature merged in Spanish, tho some writers still employ idiom, e. g. ' Balaguer '

1 March, Ausias –1460, greatest of Catalan poets 2 Fenolla, Bernard 3 Jacme Roig (satiric) 4 Farrer 5 Serafi 6 Pujol 7 Garcia 9 Minor poets

.93 Catalan fiction

.933 **Age of perfection** 1450–

Joanet Martorel –1400. *Tirant lo Blanch*, a chivalric romance

.98 Miscellany

.981 **1st period** 1200–1350

Prose superior to poetry. Chronicles of great importance, culminating in Muntaner

1 James 1 (The Conqueror) 1213–76 2 Desclot, Bernardo 3 Muntaner, Ramon 1265–1340 4 Ximenes 9 Minor authors

.982 **2d period** 1350–1450

Prose resists foren influences better than poetry. Many philosofic and theologic writings beside historical works

1 Tomich 2 Turell 9 Minor writers

850 Italian literature

850.1 Philosofy .2 Compends .3 Dictionaries .4 Essays, lectures and addresses on Italian literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

851 Italian poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic .06 Descriptiv .07 Satiric and humorous .08 Collections .09 History of Italian poetry

.1	**Early Italian Age of Dante**	**-1375**	
	To deth of Boccaccio, 1375		
.11	Protonotario, Stefano	-1250	
.12	Arezzo, Guittone d'	-1294	
.13	Guincelli, Guido	-1276	
.14	Cavalcanti, Guido	1260-1300	
.15	**Alighieri, Dante**	1265-1321	
.16	Pistoia, Cino da	1270-1336	
.17	Uberti, Fazio degli	-1369	
.18	**Petrarca, Francesco**	1304-74	
.19	Minor poets		
.2	**Period of classic learning**	**1375-1492**	
	From deth of Boccaccio, 1375, to deth of Lorenzo il Magnifico, 1492		
.21	Frezzi, Federigo	-1416	
.22	Bojardo, Matteo	1430-94	
.23	**Medici, Lorenzo dei** (Il Magnifico)	1448-92	
.24	**Poliziano, Angelo**	1454-94	
.25	Benivieni, Girolamo	1453-1542	See 852.22
.26	Sannazzaro, Jacopo	1458-1530	
.29	Minor poets		
.3	**Age of Leo the Tenth**	**1492-1542**	
	From deth of Lorenzo il Magnifico, 1492, to convocation of council of Trent, 1542		
.31	Bembo, Pietro	1470-1547	
.32	**Ariosto, Lodovico**	1474-1533	
.33	Rucellai, Giovanni	1475-1526	
.34	Molza, Francesco	1483-1544	See 853.33
.35	Tasso, Bernardo	1493-1569	
.36	Alamanni, Luigi	1495-1556	
.37	Guidiccioni, Giovanni	1500-41	
.38	Casa, Giovanni della	1503-56	
.39	Minor poets		
.4	**Later 16th century**	**1542-85**	
	From convocation of council of Trent, 1542, to pontificate of Sixtus 5, 1585		
.41	Costanzo, Angelo di	1507-91	
.42	Rota, Bernardino	1509-75	
.43	Tansillo, Luigi	1510-68	
.44	Magno, Celio	1536-1602	
.45	Guarini, Giovambattista	1537-1612	
.46	**Tasso, Torquato**	1544-95	
.47	Baldi, Bernardino	1553-1617	
.49	Minor poets		

851.5	**Period of decline**	**1585–1748**	
	From pontificate of Sixtus 5, 1585–90, to peace of Aix-la-Chapelle, 1748		
.51	Chiabrera, Gabriello	1552–1637	
.52	Marini, Giovambattista	1569–1625	
.53	Testi, Fulvio	1593–1646	
.54	Filicaja, Vincenzo	1642–1707	
.55	Guidi, Alessandro	1650–1712	
.56	Manfredi, Eustachio	1674–1738	
.57	Frugoni, Carlo Innocenzo	1692–1768	
.58	Algarotti, Francesco	1712–64	
.59	Minor poets		
.6	**Period of renovation**	**1748–1814**	
	From peace of Aix-la-Chapelle, 1748, to congress of Vienna, 1814		
.61	Paradisi, Agostino	1736–83	
.62	Mascheroni, Lorenzo	1750–1800	
.63	Pindemonte, Ippolito	1753–1828	
.64	Monti, Vincenzo	1754–1828	
.65	Cassi, Francesco	1778–1846	
.66	Foscolo, Ugo	1779–1827	
.67	Arici, Cesare	1782–1836	
.68	Sestini, Bartolommeo	1792–1822	
.69	Minor poets		
.7	**Early 19th century**	**1814–59**	
	From congress of Vienna, 1814, to war of Independence, 1859		
.71	Berchet, Giovanni	1783–1851	
.72	Rossetti, Gabriello	1783–1854	
.73	Manzoni, Alessandro	1785–1873	See 853.72
.74	Marchetti, Giovanni	1790–1852	
.75	Leopardi, Giacomo	1798–1837	
.76	Carrer, Luigi	1801–50	
.77	Regaldi, Giuseppe	1809–83	
.78	Prati, Giovanni	1815–84	
.79	Minor poets		
.8	**Later 19th century**	**1859–1900**	
	From war of Independence, 1859, to 1900		
.81	Aleardi, Aleardo	1810–78	
.82	Zanella, Giacomo	1820–88	
.83	Gnoli, Domenico	1839–	
.84	Carducci, Giosuè	1835–1907	
.85	Fogazzaro, Antonio	1842–1911	
.86	Rapisardi, Mario	1844–	
.87	Guerrini, Olindo	1845–	
.88			
.89	Minor poets		
.91	**Early 20th century**	**1901–**	

852 Italian drama

.1	**Early Italian**	**Age of Dante**	**–1375**
.2	**Period of classic learning**	**1375–1492**	
.21	Belcari, Feo	1410–84	
.22	Poliziano, Angelo	1454–94	See 851.24
.29	Minor dramatists		

852.3	**Age of Leo the Tenth 1492–1542**		
.31	Machiavelli, Niccolò	1469–1527	See also 854.31
.32	Dovizi, Bernardo (Cardinal Bibbiena)	1470–1520	
.33	Trissino, Gian Giorgio	1478–1550	
.34	Aretino, Pietro	1492–1556	
.35	Ambra, Francesco d'	–1558	
.39	Minor dramatists		
.4	**Later 16th century 1542–85**		
.41	Speroni, Sperone	1500–88	
.42	Giraldi, G. B. Cinzio	1504–73	See also 853.44
.43	Cecchi, Giovanni Maria	1517–87	
.44	Asinari, Federigo	1527–76	
.45	Porta, Giovambattista della	1538–1615	
.49	Minor dramatists		
.5	**Period of decline 1585–1748**		
.51	Buonarroti, Michelangiolo jr	1564–1646	
.52	Rinuccini, Ottavio	1565–1622	
.53	Andreini, Giovambattista	1578–1650	
.54	Gigli, Girolamo	1660–1722	
.55	Zeno, Apostolo	1669–1750	
.56	Maffei, Scipione	1675–1755	
.57	Trapassi, Pietro (Metastasio)	1698–1782	
.59	Minor dramatists		
.6	**Period of renovation 1748–1814**		
	For Manzoni, see 851.73 and 853.72		
.61	**Goldoni, Carlo**	1707–73	
.62	Gozzi, Carlo	1722–1806	
.63	Capacelli Albergati, Francesco	1728–1804	
.64	**Alfieri, Vittorio**	1749–1803	
.65	Nota, Alberto	1775–1847	
.66	Biondi, Luigi	1776–1839	
.67	Benedetti, Francesco	1785–1821	
.69	Minor dramatists		
.7	**Early 19th century 1814–59**		
.71	Niccolini, Giovambattista	1782–1861	
.72	Pellico, Silvio	1788–1854	
.73	Giacometti, Paolo	1816–81	
.74	Gherardi del Testa, Tommaso	1818–82	
.75	Ferrari, Paolo	1822–89	
.79	Minor dramatists		
.8	**Later 19th century 1859–1900**		
.81	Bersezio, Vittorio	1830–1900	
.82	Cossa, Pietro	1833–82	
.83	Carrera, Valentino	1834–95	
.84	Marenco, Leopoldo	1831–99	
.85	Cavallotti, Felice	1842–98	
.86	Torelli, Achille	1844–	
.87			
.88			
.89	Minor dramatists		
.91	**Early 20th century 1901–**		

853 Italian fiction

.1	**Early Italian Age of Dante**	**–1375**	
.11	" Cento Novelle Antiche " (Gualteruzzi's collection)		
.12	Barberino, Francesco da	1264–1348	
.13	Pisa, Guido da	–1350	
.14	Gubbio, Bosone da		
.15	**Boccaccio, Giovanni**	1313–75	
.19	Minor writers		
.2	**Period of classic learning**	**1375–1492**	
.21	Sacchetti, Franco	–1400	
.22	Fiorentino, Ser Giovanni		
.23	Manetti, Antonio	1423–97	
.24	Mangabotti, Andrea dei		
.25	Prato, Giovanni da		
.29	Minor writers		
.3	**Age of Leo the Tenth**	**1492–1542**	
.31	Salernitano, Masuccio		
.32	Bandello, Matteo	1480–1561	
.33	Molza, Francesco	1483–1544	See also 851.34
.34	Firenzuola, Agnolo	1493–1548	
.39	Minor writers		
.4	**Later 16th century**	**1542–85**	
.41	Grazzini, Antonfrancesco (Lasca)	1503–83	
.42	Doni, Antonfrancesco	1513–74	
.43	Erizzo, Sebastiano	1525–85	
.44	Giraldi, G. B. Cinzio	1504–73	See also 852.42
.45	Parabosco, Girolamo	–1560	
.49	Minor writers		
.5	**Period of decline**	**1585–1748**	
.6	**Period of renovation**	**1748–1814**	
.7	**Early 19th century**	**1814–59**	
.71	Rosini, Giovanni	1776–1855	
.72	**Manzoni, Alessandro**	1785–1873	See also 851 73
.73	Grossi, Tommaso	1791–1853	
.74	Guerrazzi, Francesco Domenico	1804–73	
.75	Bresciani, Antonio	1798–1862	
.76	Cantù, Cesare	1807–95	
.77	Carcano, Giulio	1812–83	
.78	Azeglio, Massimo d'	1800–66	
.79	Minor writers		
.8	**Later 19th century**	**1859–1900**	
.81	Castellazzo, Luigi	1827–90	
.82	Barrili, Anton Giulio	1836–1908	
.83	Capuana, Luigi	1839–	
.84	Verga, Giovanni	1840–	
.85	Faldella, Giovanni	1846–	
.86	Farina, Salvatore	1846–	
.87	Giovagnoli, Raffaele	1838–	
.88	Serao, Matilde	1856–	
.89	Minor writers		
.91	**Early 20th century**	**1901–**	

854 Italian essays

.1	**Early Italian Age of Dante**	**–1375**	
.11	Cavalca, Fra Domenico	–1342	
.12	Passavanti, Fra Jacopo	–1357	
.2	**Period of classic learning**	**1375–1492**	
.21	Alberti, Leone Battista	1404–72	
.22	Palmieri, Matteo	1405–75	
.23	Bisticci, Vespasiano da	1421–98	
.24	Collenuccio, Pandolfo	–1504	
.25	Vinci, Leonardo da	1452–1519	
.29	Minor essayists		
.3	**Age of Leo the Tenth**	**1492–1542**	
.31	Machiavelli, Niccolò	1469–1527	See also 852 31
.32	Nardi, Jacopo	1476–1555	
.33	Castiglione, Baldassare	1478–1529	
.34	Guicciardini, Francesco	1482–1540	
.35	Giannotti, Donato	1494–1573	
.36	Giambullari, Pier Francesco	1495–1555	
.37	Gelli, Giovambattista	1498–1563	
.38	Varchi, Benedetto	1503–66	
.39	Minor essayists		
.4	**Later 16th century**	**1542–85**	
.41	Castelvetro, Ludovico	1505–71	
.42	Piccolomini, Alessandro	1508–78	
.43	Borghini, Vincenzo	1515–80	
.44	Davanzati, Bernardo	1529–1606	
.45	Salviati, Leonardo	1540–89	
.46	Ammirato, Scipione	1531–1601	
.47	Paruta, Paolo	1540–98	
.48	Botero, Giovanni	1540–1617	
.49	Minor essayists		
.5	**Period of decline**	**1585–1748**	
.51	Sarpi, Paolo	1550–1623	
.52	Galilei, Galileo	1564–1642	
.53	Bartoli, Daniele	1608–85	
.54	Dati, Carlo	1619–75	
.55	Gravina, Giovanni Vincenzo	1664–1718	
.56	Muratori, Ludovico Antonio	1672–1750	
.57	Giannone, Pietro	1676–1748	
.58	Zanotti, Francesco Maria	1692–1777	
.59	Minor essayists		
.6	**Period of renovation**	**1748–1814**	
.61	Bettinelli, Saverio	1718–1808	
.62	Denina, Carlo	1730–1813	
.63	Tiraboschi, Girolamo	1731–94	
.64	Lanzi, Luigi	1732–1810	
.65	Beccaria, Cesare	1735–93	
.66	Filangeri, Gaetano	1752–88	
.67	Cesari, Antonio	1760–1828	
.68	Perticari, Giulio	1779–1822	
.69	Minor essayists		

854.7	**Early 19th century 1814–59**	
.71	Costa, Paolo	1771–1836
.72	Giordani, Pietro	1774–1848
.73	Troya, Carlo	1785–1859
.74	Balbo, Cesare	1789–1853
.75	Capponi, Gino	1792–1878
.76	Mamiani della Rovere, Terenzio	1800–85
.77	Gioberti, Vincenzo	1801–53
.78	Tommaséo, Niccolò	1802–74
.79	Minor essayists	
.8	**Later 19th century 1859–1900**	
.81	Sanctis, Francesco de	1818–83
.82	Bonghi, Ruggiero	1827–95
.83	Conti, Augusto	1822–1905
.84	Villari, Pasquale	1827–
.85	Ardigò, Roberto	1828–
86	Comparetti, Domenico	1835–
.87	Zumbini, Bonaventura	1840–
.88	Panzacchi, Enrico	1841–1904
.89	Minor essayists	
.91	**Early 20th century 1901–**	

855 Italian oratory

856 Italian letters

857 Italian satire and humor

.1	**Early Italian Age of Dante**	**–1375**
.11	Gemignano, Folgore da San	
.12	Chitarra, Cene dalla	
.13	Angiulieri, Cecco	
.14	Pucci, Antonio	–1377
.19	Minor writers	
.2	**Period of classic learning 1375–1492**	
.21	Burchiello, Domenico	1395–1448
.22	Pulci, Luigi	1432–84
.23	Vinciguerra, Antonio	
.29	Minor writers	
.3	**Age of Leo the Tenth 1492–1542**	
.31	Folengo, Teofilo (Merlin Cocai)	1491–1544
.32	Berni, Francesco	1496–1535
.39	Minor writers	
.4	**Later 16th century 1542–85**	
.41	Nelli, Pietro	
.42	Beccuti, Francesco	1509–53
.43	Caporali, Cesare	1531–1601
.49	Minor writers	

857.5	**Period of decline**	**1585–1748**	
.51	Tassoni, Alessandro		1565–1635
.52	Bracciolini, Francesco		1566–1645
.53	Lalli, Giovambattista		1572–1637
.54	Lippi, Lorenzo		1606–64
.55	Rosa, Salvatore		1615–73
.56	Menzini, Benedetto		1646–1704
.57	Sergardi, Ludovico		1660–1726
.58	Fortiguerri, Niccolò		1674–1735
.59	Minor writers		
.6	**Period of renovation**	**1748–1814**	
.61	Gozzi, Gasparo		1713–86
.62	Passeroni, Gian Carlo		1713–1803
.63	Casti, Giovambattista		1721–1803
.64	Parini, Giuseppe		1739–99
.65	Baretti, Giuseppe		1716–89
.66	Elci, Angelo Maria d'		1754–1824
.67	Pananti, Filippo		1766–1837
.69	Minor writers		
.7	**Early 19th century**	**1814–59**	
.71	Giusti, Giuseppe		1809–50
.8	**Later 19th century**	**1859–1900**	
.91	**Early 20th century**	**1901–**	

858 Italian miscellany

.8	**Later 19th century**	**1859–1900**	
.81	Gubernatis, Angelo de		1840–
.82	Amicis, Edmondo de		1846–1908

859 Wallachian literature

.1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory .6 Letters
.7 Satire and humor .8 Miscellany

.9 **Rumansh literature**

Subdivided like 859

860 Spanish literature

860.1 Philosofy .2 Compends .3 Dictionaries .4 Essays .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

861 Spanish poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic .06 Descriptiv .07 Satiric and humorous .08 Collections .09 History of Spanish poetry

.1 **Early Spanish** –1369

In 711 the Visigothic kingdom, founded in the 5th century, was overthrown by Arabs: 711–1492 Arabic period or Age of reconquest

Literature began in first half of 12th century. Earliest poetry, epic; subjects national, themes war and religion (861.11–12). These were followd by an erudite tendency toward classic tradition neglecting national themes (861.13 and .14) which were however revived toward the close of the period (861.15) by continued victories over Moors under Alfonso 11th, 1312–50, thereafter reaction again toward didactic (861.16). Under Alfonso the Wise, 1252–84, a general intellectual awakening, but leading to greater results in prose than in poetry. Thru him (1) Provençal (and Galician) and (2) Oriental influences were introduced. In Provençal literature chief attention was given to perfection of poetic form. The Oriental was didactic in content, symbolic in form.

.11 Primitiv monuments

.12 **Poema de mio Cid**

.13 Berceo, Gonzalo de 1196–1266

.14 Segura de Astorga, Juan Lorenzo 1250

.15 Yañez Ruy (Cronica del Rey Alfonso Onceno)

.16 Sem Tob, Rabbi 1350

.19 Minor poets

.2 **Age of imitation** 1369–1516

Henry 2d to Carlos 1st, Charles 5th of Germany. 1479, Union of Castile and Arragon. Under Ferdinand and Isabella all Spain was brought under one scepter. Provençal and didactic tendencies continue; a third element was Italian influence. There were 3 distinct schools:

1 Provençal, specially influential at court
2 Italian (Dante) or Allegoric, introduced by Francisco Imperial, a Genoese. (Mena, 861.22)
3 Didactic. A protest against the Italian school in behalf of national literary traditions. (Ayala, 861.21)

.21 Lopez de Ayala, Pedro 1332–1407

.22 Mena, Juan de 1411–56

.23 Mendoza, Iñigo Lopez de, Marqués de Santillana 1398–1458

.24 Manrique, Jorge 1440–79

.25 Los Cancioneros } Collections of poetry

.26 Los Romances }

.27 **Romancero del Cid**

'Romances' popular poetry, peculiar to Spain, and generally anonymous period of production, from earliest times to 18th century. Golden Age during reign of Ferdinand and Isabella, a grand reawakening coming with the fall of Granada, 1492

.29 Minor poets

861.3 Golden age 1516–1700

Rule of House of Austria. Painting culminates in this period: Morales 1509–86; Coello 1515–90; Joanes 1523–79; The Herrera — 16th century; Ribera 1588–1656; Zurbaran 1598–1662; Velazquez 1599–1660; Cano 1601–67; Murillo 1618–82, etc. Fierce opposition to the Reformation intensified religious sentiment and produced a school of mystics. The sentiment of nationality became a dream of universal monarchy. The chivalric cult of woman was replaced by an exaggerated conception of female honor, the least suspicion of frailty being visited with deth

Great number of poets. Nothing notable in epic; lyric very prominent; at first Italian influences more intensified, Petrarch the model. This movement, begun by Juan Boscan 1500(?)–1543, culminated in Garcilaso (861.31). The protest against this in favor of national traditions is best represented by Castillejo (861.32). Mendoza (861.36) represents a conciliation. A fusion of 2 schools follows in which the Italian wins the major influence. Thereafter appear 2 new schools:

1 Classic, opposed to the fusion and represented by Leon (861.33) and the Argensolas (861.34) and

2 Sicilian or Oriental (inspired specially by the Bible) of which Herrera (861.35) is standard bearer. First manifestations of ' bad taste ' appear (founder of school, Alonso de Ledesma 1552–1623) represented by Gongora (861.37) which despite opposition (Rioja 861.38) produces rapid decadence. Bad taste consisted in artificialities, exaggerations, obscurities, etc.

.31	Vega, Garcilaso de la	1503–36
.32	Castillejo, Cristóbal de	1494–1596
.33	Leon, Luis Ponce de	1528–91
	Leon is equally important in prose	
.34	Los Argensolas: Lupercio	1563–1613
	Bartolomé Leonardo	1564–1631
.35	Herrera, Fernando de	1534–97
.36	Mendoza, Diego Hurtado de	1503–75
.37	Góngora y Argote, Luis de	1561–1627
.38	Rioja, Francisco de	1600–59
.39	Minor poets	

.4 18th century 1700–1800

At deth of Carlos 2d (1700) war of succession resulted in firm establishment of house of Bourbon, which, with brief interruptions, has continued to rule. Spanish political importance lost. At opening of century complete decadence, ' bad taste ' every where dominant. Attempts made to regenerate Spanish letters according to principles of French classicism. Little advance, however, till close of century, despite foundation of academies (Spanish academy, 1714) and doctrinal reform in French sense, proclaimd by Luzan (1702–54) in *La poetica*, etc. Thereafter a kind of revival. 3 schools formed:

1 Classic French. Moratin the elder (861.41); Cadalso (861.42); Yriarte (861.45) and Samaniego (861.44)

2 Antique national, protesting against introduction of French taste. Huerta (861.43)

3 Salamanca school, an attempt to reconcile the first 2, avoiding their extravagances and conserving what was good in each. Valdés (861.46); Iglesias (861.47); Cienfuegos (861.48); Moratin the younger (862.42) and Jovellanos (868.42). ' Prosaism ' production of exaggerated opposition to Gongorism or ' bad taste ' also characterizes period. Influence of French encyclopedism also manifest. Development of science checkt by religious (Inquisition) and political despotism. Rich development of fables and apologs in verse. Samaniego (861.44) and Yriarte (861.45). In epic, complete poverty

.41	Moratin (the Elder), Nicolás Fernandez de	1737–80
.42	Cadalso, José de	1741–82
.43	Huerta, Vicente Antonio García de la	1734–87
.44	Samaniego, Félix María de	1745–1801
.45	Yriarte, Tomás de	1750–91
.46	Valdés, Juan Melendez	1754–1817
.47	Iglesias de la Casa, José	1748–91
.48	Cienfuegos, Nicasio Alvarez de	1764–1809
.49	Minor poets	

861.5 **19th century 1800–1900**

Abdication of Carlos 4th, 1808; Joseph 1st (Bonaparte) 1808–13. Ferdinand 7th restored. Salic law abrogated, opening succession to daughter Isabella. Carlist insurrections (upholding Salic law) queld. Isabella driven from throne by revolution 1868; 1870–73 Amadeo (Savoy house), 1873, Amadeo abdicates and republic proclaimd; monarchy restored with Alfonso 12th in 1875

Age, till close of Ferdinand's reign, very unfavorable to letters. Under Carlos 4th (1788–1808) despotism reintroduced and revolution followd. Policy of Ferdinand 7th, after restoration (1813–33), retrograde. An interregnum in letters. First real awakening with Espronceda (861.52). Same fluctuations as in previous period. Romantic school introduced by Zorrilla (861.53)

.51 Quintana, Manuel José 1772–1857
.52 Espronceda, José de 1810–42
.53 Zorrilla y Moral, José 1817–90
.54 Gutierrez, Antonio García 1812–84
.55 Gil y Zárate, Antonio 1792–1861
.56 Hartzembusch, Juan Eugenio 1806–80
.59 Minor poets
.6 **Early 20th century 1901–**

862 Spanish drama

.2 **Age of imitation 1369–1516**

Evidences of existence of 'mysteries' but no remains

.21 Enzina, Juan del (?)1468–1534
.22 Vicente, Gil (?)1450–1536
.3 **Golden age 1516–1700**

Drama of this period is chief glory of Spanish letters; writers show a phenomenal fecundity (at 70 'Lope' had written 1500 dramas), 30,000 dramas composed by beginning of 18th century. At opening of period Church tried to check development of profane drama, placing nearly all in the *Index*. Torres Naharro (works pub. 1517) and Lope de Rueda (d. 1567) form transition from preceding period. Latter, reputed father of national theater. Lope de Vega (862.31) real founder. Drama culminates in Calderon (862 35); thereafter decadence

.31 **Vega Carpio, Lope Felix de** 1562–1635
.32 Cāstro y Bēlvis, Guillen de 1567–1621
.33 Tellez, Gabriel (Tirso de Molina, pseud.) (?)1570–1648
.34 Alarcon y Mendoza, Juan Ruiz de (?)1580–1639
.35 **Calderon de la Barca, Pedro** 1600–81
.36 Rojas y Zorrilla, Francisco de 1607–
.37 Moreto y Cabaña, Agustin 1618–69
.39 Minor dramatists
.4 **18th century 1700–1800**

Complete decadence of drama in last years of old monarchy. Revival in 18th century, following French classic drama. Culminates in Moratin the younger (862.42). Opposition of National school voiced in Huerta (861.43). Discussions provoke abundant productions, fecundity rather than merit characterizing mass of write s, Comella (862.41) — Period of unrest; old ideas can not be reestablisht, new can not be naturalized. For Moratin the elder, see 861.41; Huerta, 861.43

.41 Comella, Luciano Francisco 1716–79
.42 Moratin, Leandro Fernandez de 1760–1828
.43 Cruz, Ramon de la (Light comedies) 1731–95
.49 Minor dramatists
.5 **19th century 1800–1900**

Zorrilla (861.53), Gutierrez (861.54), and Rubí (862.52) represent 'romantic' movement in Spanish drama. For Gil y Zárate, see 861.55; Hartzembusch, 861.56

.51 Martinez de la Rosa, Francisco 1789–1862
.52 Rodriguez Rubí, Tomás 1817–90
.53 Bretón de los Herreros, Manuel 1796–1873
.59 Minor dramatists
.6 **Early 20th century 1901–**

863 Spanish fiction

.2 **Age of imitation 1369–1516**

Immense vogue of books of chivalry despite legislation till publication of *Don Quijote;* thereafter only one written. [First part of Quijote printed 1605]

.21 Books of chivalry

.22 **Amadis de Gaula**

.23 *Celestina*

.3 **Golden age 1516–1700**

Real novel replaces old books of chivalry about 1500. 'Picaresca,' or 'rogue' novel characteristic of this period; a result of the state of society following wars of Charles 1st and Philip 2d, e. g. Mendoza's *Lazarillo de Tormes.* For Mendoza, see 861.36

.31 Montemayor, Jorge de 1520–61

.32 **Cervantes Saavedra, Miguel de** 1547–1616

.39 Minor novelists

.4 **18th century 1700–1800**

.5 **19th century 1800–1900**

For Bretón de los Herreros, see 862.53; and Rodriguez Rubí, 862.52

.51 Larra, Mariano José de [Figaro] 1809–37

.52 Mesonero y Romanos, Ramón de 1803–82

.53 Arrom, Cecilia Boehl de [Fernan Caballero] 1797–1877

.59 Minor writers

.6 **Early 20th century 1901–**

864 Spanish essays

865 Spanish oratory

Hardly any forensic and little sacred eloquence. When language and culture advanced, privileges of Cortes restraind. Sacred eloquence less employd by Spanish church than by French or English. Gongorism or 'bad taste' conquers here as elsewhere

.1 **Early Spanish –1369**

.2 **Age of imitation 1369–1516**

.3 **Golden age 1516–1700**

For Luis de Leon, see 861.33; and Luis de Granada, 868.32

.4 **18th century 1700–1800**

For Jovellanos, see 868.42; and Valdés, 861.46

.5 **19th century 1800–1900**

.51 Olozaga, Salustiano de 1803–73

.52 Castelar, Emilio 1832–99

.6 **Early 20th century 1901–**

866 Spanish letters

.3 **Golden age 1516–1700**

Naturalness of old times changed with majestic court and rigid etiquet of Charles 5th. For Santa Teresa, see 868.33

.31 Avila, Juan de 1502–69

.32 Perez Antonio 1540–1611

.39 Minor writers

867 Spanish satire

.1 **Early Spanish** –1369
Ruiz, Juan (Arcipreste de Hita) 1350

.2 **Age of imitation** 1369–1516
Coplas de Mingo Revulgo

.3 **Golden age** 1516–1700
Quevedo Villegas, Francisco Gomez de 1580–1645

.4 **18th century** 1700–1800
For Cadalso, see 861.42; and Moratin the younger, 862.42
.41 Jorge Pitillas (a pseudonym)
.42 Isla, José Francisco de (el Padre) 1703–81

868 Spanish miscellany

.1 **Early Spanish** –1369
.11 Alfonso 10, el Sábio 1221–84
.12 Sancho el Bravo (4th of Castile) 1258–95
.13 Manuel, Juan 1282–1347
.14 Alfonso 11 1310–50
.19 Minor writers

.2 **Age of imitation** 1369–1516
General and special histories, books of travel, works cald forth by Boccaccio's *Corvaccio*, etc.

.3 **Golden age** 1516–1700
Didactic prose. Considerable development, tho less than poetry, owing in great mesure to political and religious restraints. 'Bad taste' manifests itself here as elsewhere. Luis de Granada, Santa Teresa, San Juan de la Cruz, Pedro de Rivadeneyra and Luis de Leon, representativs of Mystic school
For Luis de Leon, see 861.33; and Quevedo y Villegas, 867.3
.31 Mariana, Juan de, founder of Spanish history 1536–1623
.32 Granada, Luis de 1504–88
.33 Teresa de Jesús, Santa 1513–82
.34 Cruz, San Juan de la 1542–91
.35 Rivadeneyra, Pedro de 1527–1611
.36 Saavedra Fajardo, Diego de 1584–1648
.39 Minor writers

.4 **18th century** 1700–1800
Under Carlos 3d (1759–88) scientific studies took a fresh start, due largely to Feijóo, who attempted intellectual emancipation of Spain. Prose advances under French influence, Gallicisms introduced
.41 Feijóo y Montenegro, Benito Jerónimo 1676–1764
.42 Jovellanos, Gaspar Melchor de 1744–1811
.49 Minor writers

.5 **19th century** 1800–1900
For Hartzembusch, J E, see 861.56
.51 Gayangos, Pascual de 1809–97
.52 Rios, José Amador de los 1818–78
.53 Milá y Fontanals, Manuel 1818–84
.59 Minor writers

.6 **Early 20th century** 1901–

869 Portuguese literature

.1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory .6 Letters
.7 Satire and humor .8 Miscellany

870 Latin literature

.1 Philosofy .2 Compends .3 Dictionaries, cyclopedias .4 Essays .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History of Latin literature

871 Latin poetry in general

See Dramatic, Epic and Lyric below

.1 **Lucretius Carus, Titus**
.2 **Ovid (Publius Ovidius Naso)**
.3 **Hyginus, Caius Julius**
.4 **Faliscus, Gratius**
.5 **Manilius, Marcus**
.6 **Phaedrus**
.7 **Lucilius Junior** *Ætna*
.8

872 Latin drama

.1 **Andronicus, Livius**
.2 **Naevius, Cnaeus**
.3 **Plautus, Titus Maccius**
.4 **Ennius**
.5 **Terence (Publius Terentius Afer)**
.6 **Seneca, Lucius Annaeus** See also 878 5
.7

873 Latin epic poetry

.1 **Virgil (Publius Virgilius Maro)**
.2 **Lucanus, Marcus Annaeus**
.3 **Flaccus, Caius Valerius**
.4 **Silius Italicus, Caius**
.5 **Statius, Publius Papinius**
.6

874 Latin lyric poetry

.1 **Catullus, Tibullus and Propertius**
.2 Catullus, Valerius
.3 Tibullus, Albius
.4 Propertius, Sextus Aurelius
.5 **Horace (Quintus Horatius Flaccus)** See also 877.3
.6 **Calpurnius Siculus**
.7

875 Latin oratory

.1 **Cicero, Marcus Tullius: complete works**
For Cicero's letters see 876.1

.2 Orations

.3 Rhetorical works

.4 Philosofic works See also 186.3

.5 **Messala Corvinus, Marcus Valerius**

.6 **Quintilian (Marcus Fabius Quintilianus)**

.7

876 Latin letters

.1 **Cicero, Marcus Tullius** For his other works see 875.1–875.4

.2 **Pliny (Caius Plinius Caecilius Secundus)**

.3 **Fronto, Marcus Cornelius**

.4

877 Latin satire and humor

.1 **Lucilius, Caius**

.2 **Cato, Valerius**

.3 **Horace** See 874.5

.4 **Persius Flaccus, Aulus**

.5 **Petronius Arbiter, Caius**

.6 **Martial (Marcus Valerius Martialis)**

.7 **Juvenal (Decimus Junius Juvenalis)**

878 Latin miscellany

.1 **Caesar, Caius Julius**

.2 **Sallust (Caius Sallustius Crispus)**

.3 **Nepos, Cornelius**

.4 **Livy (Titus Livius Patavinus)**

.5 **Seneca, Lucius Annaeus** See also 872.6 and 188.6

.6 **Tacitus, Caius Cornelius**

.7 **Suetonius Tranquillus, Caius**

.8 **Curtius Rufus, Quintus**

.9 **Minor writers**

879 Medieval and modern Latin

Subdivided like 820. .1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory .6 Letters .7 Satire and humor .8 Miscellany

880 Greek literature

Classic literature

.1 Philosofy .2 Compends .3 Dictionaries .4 Essays on Greek literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History of Greek literature

881 Greek poetry in general

See Dramatic, Epic, and Lyric, below

.1 **Theognis**
.2 **Aratus**
.3 **Lycophron**
.4 **Babrius**

882 Greek dramatic poetry

.1 **Æschylus**
.2 **Sophocles**
.3 **Euripides**
.4 **Aristophanes**
.5 **Epicharmus**
.6 **Menander**

883 Greek epic poetry

.1 **Homer**
.2 **Hesiod**
.3 **Apollonius Rhodius**
.4 **Oppian**
.5 *Orphic poems*

884 Greek lyric poetry

.1 **Tyrtaeus**
.2 **Sappho**
.3 **Anacreon**
.4 **Simonides of Ceos**
.5 **Pindar**
.6 **Theocritus**
.7 **Bion**
.8 **Callimachus**
.9 **Minor Greek lyric poets**

885 Greek oratory

.1 **Andocides**
.2 **Lysias**
.3 **Isaeus**
.4 **Isocrates**
.5 **Æschines**
.6 **Demosthenes**
.7 **Hyperides**
.8 **Lycurgus**
.9 **Minor Greek orators**

886 Greek letters

.1 **Themistocles**
.2 **Alciphron**
.3 **Phalaris**

887 Greek satire and humor

For comedies of Aristophanes see 882.4

.1 **Archilochus**
.2 **Simonides of Samos**
.3 **Hipponax**

888 Greek miscellany

.1 **Herodotus**
.2 **Thucydides**
.3 **Xenophon**
.4 **Plato** See also 184.1 Platonic philosofy
.5 **Aristotle** See also 185.1 Aristotelian philosofy

Or if preferd, the works of Plato and Aristotle may be put in 184.1 and 185.1

.6 **Æsop**
.7 **Lucian**
.8 **Plutarch** See also 186.2
.9 **Minor writers**

889 Medieval and modern Greek

.1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory .6 Letters .7 Satire and humor .8 Miscellany

890 Literature of minor languages

Subdivided like 490, Philology of minor languages. If wisht 1 Poetry; 2 Drama, etc., can be used after the language number; e. g. Russian drama is 891.72, Hebrew poetry 892.41, Bengali poetry 891.441

History

900 History in general

901–909 all have *History in general* as their subject, but it is treated in these various *forms*. A periodical on English history goes with 942, not 905, which is only for periodicals on history in general. Naught (0) in any class number in any part of the classification shows the subject to be general, not specific

901 Philosofy, theories, etc. History of civilization

902 Compends, chronologies, charts, outlines

For chronology as a science, see 529

903 Dictionaries, cyclopedias, etc.

904 Essays, lectures, addresses

905 Periodicals, historical magazines

906 Societies, transactions, etc.

907 Education, methods of teaching, writing, etc.

See also 371.3

908 Polygrafy, collected works, extracts, etc.

909 Universal and general modern histories

For general Ancient histories, see 930

.1	A. D. 476—1199	.5	1500—1599
.2	1200—1299	.6	1600—1699
.3	1300—1399	.7	1700—1799
.4	1400—1499	.8	1800—1899

910 Geografy and travels

Including topografy, maps, antiquities, descriptions, etc.

For map projection, see 526.9. See also 310 Statistics, 390 Customs and costumes

For directories, guidebooks, gazetteers, etc. of special countries or geografic sections see under those sections, 914–919

.1

.2 **Traveler's manuals, guidebooks**

.3 **Dictionaries, gazetteers**

.4 **Circumnavigations, ocean travel, shipwrecks and disasters, piratic adventures**

.5 **Periodicals**

.6 **Societies**

.7 **Study and teaching of geografy: school map drawing**

For primary teaching of geografy see 372.89

.8 **Collections of travels, etc.**

.9 **History of geografy, travels, explorations, etc.**

911 Historic Growth and changes in political divisions, etc. Subdivided like 930–999

912 Maps, atlases, plans of cities, etc.
Subdivided like 930–999

913 Antiquities, archeology, of special countries
See also 220.93 Biblical antiquities; 340.3 Legal antiquities; 571 Prehistoric archeology; 930 Ancient history; 390 Special customs. 913 is divided like 930–999. Note that this 3 is not the ancient history 3. Keltic antiquities are 913.36, not 913.6, which is African

914 Europe
915 Asia
916 Africa
917 North America
918 South America
919 Oceanica and Polar regions

914–919 is subdivided like 940–999. Whenever these main geografic hedings occur they may be subdivided exactly like History. The full list of subheds is printed only under 940–999. In assigning numbers to travels, use the history tables, *insert* 1 *after the initial* 9, and move the decimal point; e. g. Guide to N.Y. city is 917.471, for N.Y. city in history tables is 974.71

920 Biografy

Including autobiografy, diaries, personal narrativs, eulogies, biografic dictionaries, etc. All biografy is here groupt together under the main classes, and subdivided in the same way with the variations indicated below for Philosofy, Theology, and Sociology, i. e. the biografy of science is divided like science itself, see 500–599. Lives of chemists are 925.4; of botanists, 925.8; of sailors, 926.56; of actors, 927.92; of the inventor of hard rubber, 926.78, etc. The rule is to give each life the number of the subject it illustrates most, or to the student of which it will be most useful.
Another plan is to scatter biografy with the other books, leaving 920–928 blank, or using them only for general works, cross references, etc. This simply omits the first 2 figures 92, and the life of a botanist is 580 insted of 925.8, and goes with botanic books
Lives which will not go under any hed without 'forcing' are best put in a single alfabet under the 3 figures 920 for men and under 920.7 for women

General and collectiv by localities

Including only collected lives too general to go under any subject heding

.01 Universal
.02 Partial collections not limited to any special country or subject
.03 Ancient
.04 Of Europe
.05 " Asia
.06 " Africa
.07 " North America
.08 " South America
.09 " Oceanica

920 Individual and collectiv by subjects

.1 **Bibliografers**
.2 **Librarians**
.3 **Encyclopedists**
.4 **Publishers Booksellers**
.5 **Journalists**
.6 **Academicians**
.7 **Women** Collected, and individual lives not clearly going with any subject
.8 **Eccentrics, cranks, fools, insane, etc.** See also 132.1 Insanity
.9 **Other special classes not included in 921–928, e. g. phrenologists, somnambulists, mindreaders, magicians, etc.**

921 Of philosofy

.1 **American**
.2 **English Scotch**
.3 **German**
.4 **French**
.5 **Italian**
.6 **Spanish**
.7 **Slavic**
.8 **Scandinavian and other modern**
.9 **Ancient Oriental Patristic Scholastic** See 180–189

922 Of religion: clergy, missionaries, preachers

922.1–922.88 may be subdivided for nationality like 930–999

.1 **Primitiv apostles, fathers, etc. oriental, Greek, Russian**
See 225.92 New Testament biografy
.2 **Roman catholic: popes, cardinals, etc.**
.21 Lives of popes
.3 **Anglican and protestant episcopal**
.4 **Continental protestant: Lutheran, Huguenot**
.5 **Presbyterian and congregational**
.6 **Baptist Immersionist**
.7 **Methodist**
.8 **Unitarian, universalist and other**
.81 Unitarian Universalist
.84 New church or Swedenborgian
.85 Christian science
86 Quaker
.87 Mennonite
.88 Shaker
.89 Other minor Christian sects

922.9 **Ethnic and other**
.91 Atheists
.92
.93
.94 Brahman Buddhist
.95 Parsee
.96 Jews
.97 Mohammedan
.98 Mormon
.99 **Minor nonchristian religions**

923 Of sociology

923.1–923.8 may be subdivided for nationality, as in 930–999; e. g. the life of an English king is 923.142; of a Russian czar, 923.147; of a Chinese general, 923.551

.1 **Chief rulers: kings, queens, emperors, presidents**
.2 **Political science: legislativ dep't, governors, politicians, statesmen, nobles, etc.** For slaves, see 326.92
.3 **Political economy: bankers, capitalists, financiers**
.4 **Law: judiciary dep't, lawyers, judges**
.41 Criminals
.5 **Administration: army and navy, civil servis**
.6 **Associations and institutions Philanthropists, etc.**
.7 **Education: teachers, school offisers, educators**
.8 **Commerce and communication: railway officials, merchants, etc.**
.9 **Manners and customs: society, travelers, discovery**

924 Of philology
925 " science
926 " useful arts
927 " fine arts
928 " literature

See note under 920 about subdividing. It is seldom wise to use more than 4 figures, unless in a large special collection; e. g. in a music library, lives of pianists may be separated as 927.86. Professors known as specialists go with the subject taught rather than with teachers; e. g. a professor of geology 925.5; but if more prominent as an educator than as a geologist he goes in 923.7

In adding figures for the subdivisions of literature, as in 810–899, class historians with miscellaneous authors as 8; i. e. Gibbon's life is 928.28; 928.31 is life of a German poet, and 928.691 is life of a Portuguese poet

929 Genealogy and heraldry

.1 **Genealogies**

.2 Families

.3 Registers of births, baptisms, marriages, deths

.4 Names of persons and places

.5 Epitafs

.6 **Heraldry**

.7 **Peerage, precedence, titles of honor Royal houses**

.71 **Orders of Knighthood**

.711 St John of Jerusalem

.712 Templars

.713 Teutonic knights

.714 Garter

.715 Golden Fleece

.716 Holy Ghost

.717

.718

.719

.72 **Great Britain and Ireland**

.721 Peerage Royal houses

.722 Baronetage

.723 Knightage

.724 Dignities, precedence

.725 Landed gentry

.726 Visitations Alfabeted by counties

.73 **Germany**

.74 **France**

.75 **Italy**

.76 **Spain**

.77 **Russia**

.78 **Scandinavia**

Divided like 929.72

.79 **Minor countries**

Divided like 949; minor countries outside Europe are put together in 929.799

.8 **Coats of arms, crests**

.9 **Flags**

930 **Ancient history** 476 A.D.

931 China

932 Egypt

933 Judea

934 India

935 Medo-Persia

.1 **Chaldea**
.2 **Assyria** **Nineveh**
.3 **Media**
.4 **Babylonia**
.5 **Persia**
.6 **Parthia**
.7 **New Persian or Sassanian**
.8 **Mesopotamia**
.9 **Susiana**

936 Kelts

937 Rome Italy

Period divisions

.01	Kings	753–509	B. C.
.02	Republic	509– 31	"
.03	Conquest of Italy	509–264	"
.04	Punic wars	264–146	"
.05	Civil strife	146– 31	"
.06	Empire	31 B. C.–476	A. D.
.07	Constitutional	31 " –284	"
	Augustus—Illyrian emperors		
.08	Absolute	284–476	"
.09	Division of empire	395–476	"
	Barbarian conquests and fall of western empire		

Geografic divisions

.1 **Liguria**
.2 **Gallia Cisalpina**
.3 **Venetia** **Istria**
.4 **Umbria** **Picenum** **Sabini, etc.**
.5 **Etruria**
.6 **Latium, Rome**
.7 **Southern Italy: Campania, Samnium, Apulia, etc.**
.8 **Sicily, Syracuse**
.9 **Sardinia** **Corsica**

938 Greece

Period divisions

.01	Mythical age	–776	B. C.
.02	Growth of states	775–500	"
.03	Persian wars Union of Greece	500–479	"
.04	Athenian supremacy	479–431	"
.05	Peloponnesian war	431–404	"
.06	Spartan and Theban supremacy	404–362	"
.07	Macedonian supremacy	362–323	"
.08	Roman conquest of Greece	323–146	"
.09	Greek subjection	146 B. C.–323	A. D.
	Byzantine empire is clast 949.5		

Geografic divisions of Greece

938.1 **Macedonia**
.2 **Thessaly** **Epirus**
.3 **Acarnania** **Ætolia** **Locris** **Doris** **Phocis** **Ithaca**
.4 **Boeotia** **Megaris** **Euboea**
.5 **Attica**
6 **Peloponnesus**
.7 **Corinthia** **Achaia**
.8 **Elis** **Arcadia** **Argolis**
.9 **Messenia** **Laconia** **Sparta**

939 Minor countries

.1 **Grecian archipelago**
.11 Northern ilands: Thasos, Lemnos, etc. .12 Lesbos .13 Chios, etc. .14 Samos, etc. .15 Cyclades .16 Rhodes, etc. .17 Carpathos .18 Crete

.2 **Western Asia Minor**
.21 Mysia, Troas .22 Lydia .23 Ionia .24 Caria .25 Bithynia .26 Phrygia .27 Pisidia .28 Lycia .29 Pamphylia

.3 **Eastern Asia Minor**
.31 Paphlagonia .32 Galatia .33 Pontus .34 Cappadocia .35 Cilicia .36 Commagene .37 Cyprus

.4 **Syria**
.41 Upper Syria .42 Coele Syria .43 Palmyra .44 Phenicia, Tyre .45 Palestine: Hittites, Philistines, etc. .46 Edom, Moab, Bashan, etc. .47 Arabia .48 Arabia Petraea, Sinai

.5 **Northwestern Asia**
.51 Scythia .52 Sarmatia Asiatica .53 Colchis .54 Iberia .55 Armenia .56 Albania

.6 **South Central Asia**
.61 Sogdiana .62 Hyrcania .63 Margiana .64 Bactriana .65 Ariana

.7 **Minor African countries**
.71 Mauritania .72 Numidia .73 Africa Propria, Carthage .74 Syrtica Regio .75 Cyrenaica .76 Marmarica .77 Libya, Gaetulia .78 Ethiopia

.8 **Southeastern Europe**
.81 Sarmatia Europa .82 Dacia .83 Vindelicia .84 Rhaetia .85 Noricum .86 Pannonia .87 Illyria .88 Moesia .89 Thracia

Modern history

940 Europe

From fall of the Western empire (Rome) A. D. 476

.1 **Medieval Europe** 476–1453

For Byzantine empire see 949.5

.11 **Rise of new nations** 476– 800

.14 **Age of feudalism** 800–1100

See also 321.3 Feudalism (Political science)

Charlemagne 768–814

Norman conquests

.17 **Age of chivalry** 1100–1453

To fall of Eastern empire (Constantinople) 1453

.18 **Crusades** 1096–1270

See also church history, 270.4–.5

.181	1st	crusade	1096	(Peter the Hermit)
.182	2d	"	1147	(St Bernard)
.183	3d	"	1190	(Richard Coeur de Lion)
.184	4th	"	1202	(Baldwin of Flanders)
.185	5th	"	1212	(Children's crusade)
.186	6th	"	1217	(Capture of Jerusalem)
.187	7th	"	1228	
.188	8th	"	1248	(St Louis)
.189	9th	"	1270	"

.2 **Modern Europe** 1453–

.21 **Renaissance period** 1453–1517

Discoveries and inventions

.22 **Age of the reformation** 1517–1789

.23

.24 30 years war 1618–48

.25

.26

.27 **Napoleonic period** 1789–1815

.28 **19th century** 1815–1914

.29

.3 **Great war** 1914–19

.31 Political history

.311 Causes

.312 Efforts to preserv peace

See also 940.32 Diplomatic history

.313

.314 Results: terms of peace

940.315 Relations of special classes

Subdivided like the classification, using 9 for refugees, divided like 940–999 by country of origin. For classes not thus provided for see 940.316

2 **Clergy Church**

Subdivide .3152–28 like 280, but use .315289 for sects in 289; e. g.

.31521 Greek catholic church
22 Roman " " Pope
2895 Christian scientists

Use .31520 like 290; e. g.

.315296 Jews
297 Mohammedans Holy war

.316 Other special classes

1 **Noncombatants**
2 **Pacifists**
3 **Enemy sympathizers**

.317

.318 Relations of special interests Aspects

Divided generally like the classification

.32 Diplomatic history

See also 940.31–.314 Political history

.33 Groups of countries: allies and neutrals

As a body; for individual countries see 940.34–.39

.332 Entente

.334 Teuton allies, Central powers

.335 Neutrals

.34–.39 Individual countries

Divided like 940–999

Under each country farther subdivision may be made with the following numbers, if its part in this war is clast here insted of with the rest of its history:

01 Political history Causes
02 Diplomatic "
03 Local (states, counties provinces, cities)
04 Military organization
Class operations in 940.4
05 Aspects: economic and other
06 Celebrations
07 Prisons, etc.
08 Personal narrativ
09 Illustrativ

.4 Military history

.405 Frightfulness, atrocities

As military expedient. For other relations see Atrocities in Relativ index. But, since the avowd policy of one group of belligerents was 'frightfulness', it pervades all literature of this war.

.41 Land operations

.42–.43 **Special campains and battles**

.44 Air warfare

.45 Naval history

.46 Celebrations, commemorations

Usually better clast with event commemorated. For American patriotic societies of this war see 369.186

.461 War meetings

.462

.463 Flag presentations

.464 Decorations: presentation

940.465 Monuments, memorials
General, of the war or a country's part in it; but class memorials of a special event with that event
4-9 **By country** Divided like 940-999
.467 Rolls of honor Lists of ded
.468
.47 Prisons, hospitals, charities
.471
.472 Prisons
Divided like 940-999 and including internment camps
.473 Exchange of prisoners
.474
.475 Medical department, surgeons, nurses
See also 616 and 617
4-9 **By country maintaining** Divided like 940-999
.476 Hospitals, hospital sketches
34-39 **By country in which located** Divided like 940-999
4-9 **By country maintaining** " " "
.477 Welfare work
1 **Red Cross**
2 **Salvation Army**
3 **Y M C A**
4 **Y W C A**
5 **Knights of Columbus**
6 **Young Men's Hebrew ass'n**
7 **Other: college units, etc.**
8 **By country conducting** Divided like 940-999
9 **By country in which conducted** Divided like 940-999
.478 Religious life, chaplains, etc.
.48 Personal narrativs, secret servis
When relating to some special battle or event, class with subject
.481 Entente allies
.482 Central powers
.483 Army life, Entente allies
.484 " Central powers
.485 Secret servis, spies
.486
.487 **German secret servis**
.488
.489
.49 Illustrativ material
Subdivided like 973.79
For pecial collections; but most material should be clast with its subject: poetry, drama, etc. with the literatures to which they belong
.5 **Later 20th century**
Including works on 20th century as a whole

941 Scotland

Period divisions

.01	Gaelic period	–1097
.02	English period	1097–1314
	Struggle for national freedom	
.03	Independent kingdom	1314–1424
.04	The Jameses	1424–1557
.05	Reformation	1557–1603
.06	Union of crowns and parliaments	1603–1707
.07	Hanover	1707–1837
.08	Later Hanoverian	1837–
.09		

Geografic divisions

.1 **Northern Scotland**

.11 Shetland .12 Orkney .13 Caithness .14 Sutherland .15 Cromarty .16 Ross .17 Hebrides

.2 **North central Scotland**

.21 Inverness .22 Nairn .23 Elgin .24 Banff .25 Aberdeen .26 Kincardine

.3 **South central Scotland**

.31 Forfar .32 Perth .33 Fife .34 Kinross .35 Clackmannan .36 Sterling .37 Dumbarton .38 Argyll .39 Bute

.4 **Southern Scotland**

.41 Renfrew .42 Ayr .43 Lanark .44 Linlithgow, Edinburgh .45 Haddington, Berwick .46 Peebles, Selkirk .47 Roxburgh .48 Dumfries .49 Kirkcudbright, Wigton

941.5 Ireland

Period divisions

.51	Early history	–1086
.52	Separate kingdoms	1086–1172
	Conquest by Henry 2	
.53	Plantagenet	1172–1399
.54	Lancaster and York	1399–1485
.55	Tudors	1485–1603
.56	Stuarts	1603–91
	Closing with treaty of Limerick	
.57	Hanover	1691–1801
	Closing with the union	
.58	19th century	1801–1900
.591	Early 20th century	

Geografic divisions of Ireland

941.6 **Ulster**

.61 Antrim .62 Londonderry .63 Donegal .64 Tyrone .65 Down .66 Armagh .67 Monaghan .68 Fermanagh .69 Cavan

.7 **Connaught**

.71 Leitrim .72 Sligo .73 Mayo .74 Galway .75 Roscommon

.8 **Leinster**

.81 Longford, West Meath .82 Meath, Louth .83 Dublin .84 Wicklow .85 Kildare .86 King's co. .87 Queen's co. .88 Carlow, Wexford .89 Kilkenny

.9 **Munster**

.91 Waterford .92 Tipperary .93 Clare .94 Limerick .95 Cork .96 Kerry

942 England

Including works on Great Britain

Period divisions

For specially minute work the 6th figure printed for each soveren may be used; e. g. Henry 7 is 942.051

.01 **Anglo-Saxon** **B. C. 55-A. D. 1066**

Prehistoric, Roman, British, Danish

.02 **Norman** **1066–1154**

1 William 1 *1066-87* 2 William 2 *1087–1100* 3 Henry 1 *1100–35* 4 Stephen *1135–54*

.03 **Plantagenet** **1154–1399**

1 Henry 2 *1154–89* 2 Richard 1 *1189–99* 3 John *1199–1216* 4 Henry 3 *1216–72* 5 Edward 1 *1272–1307* 6 Edward 2 *1307–27* 7 Edward 3 *1327–77* 8 Richard 2 *1377–99*

.04 **Lancaster and York** **1400–85**

Wars of the roses 1455-85 (Lancaster, red; York, white)

1 Henry 4 *1399–1413* 2 Henry 5 *1413–22* 3 Henry 6 *1422–61* 4 Edward 4 *1461–83* 5 Edward 5 *1483* 6 Richard 3 *1483–85*

.05 **Tudor** **1485–1603**

1 Henry 7 *1485–1509* 2 Henry 8 *1509–47* 3 Edward 6 *1547–53* 4 Mary *1553–58* See also 272.6 5 Elizabeth *1558–1603* See also 272.7

.06 **Stuart** **1603–1714**

1 James 1 *1603–25* 2 Charles 1 *1625–49* 3 Commonwelth *1649–53* 4 Oliver Cromwell *1653–58* 5 Richard Cromwell *1658–59* 6 Charles 2 *1660–85* 7 James 2 *1685–88* 8 William 3 *1689–1702* 9 Anne *1702–14*

.07 **Hanover** **1714–1837**

1 George 1 *1714–27* 2 George 2 *1727–60* 3 George 3 *1760–1820* 4 George 4 *1820–30* 5 William 4 *1830–37*

.08 **Later Hanoverian** **1837–**

1 Victoria *1837–1901* 2 Edward 7 *1901–10* 3 George 5 *1910–*

Geografic divisions

942.1 **Middlesex London**

.2 **Southeastern**

.21 Surrey .23 Kent .25 Sussex .27 Hants .28 Isle of Wight .29 Berks

.3 **Southwestern**

.31 Wilts .33 Dorset .34 Channel ilands .35 Devon .37 Cornwall .38 Somerset

.4 **West Midland**

.41 Gloucester .43 Monmouth .44 Hereford .45 Salop .46 Stafford .47 Worcester .48 Warwick

.5 **North and South Midland**

.51 Derby .52 Notts .53 Lincoln .54 Leicester, Rutland .55 Northampton .56 Huntington, Bedford .57 Oxford, Buckingham .58 Hertford .59 Cambridge

.6 **Eastern**

.61 Norfolk .64 Suffolk .67 Essex

.7 **Northwestern and Yorkshire**

.71 Cheshire .72 Lancashire .74 Yorkshire

.8 **Northern**

.81 Durham .82 Northumberland .85 Cumberland .88 Westmoreland .89 Isle of Man

.9 **Wales**

.91 Anglesey .92 Carnarvon, Merioneth .93 Denbigh, Flint .94 Montgomery .95 Cardigan .96 Radnor, Brecknock .97 Glamorgan .98 Carmarthen .99 Pembroke

943 Germany and Austria

Period divisions

.01 **Formativ period**

Wars with Rome Charlemagne *800–814* Louis 1 *814–840* Lothaire 1 *840–843*

.02 **Empire before the reformation**

1 **Carolingian** *843–911:* Louis 2 *843–876* Charles 2 *876–877* Charles 3 *877–887* Arnulf *887–899* Louis 3 *900–911*

2 House of **Franconia:** Conrad 1 *911–918* House of **Saxony,** *919–1024:* Henry 1 *919–936* Otto 1 *936–973* Otto 2 *973–983* Otto 3 *983–1002* Henry 2 *1002–24*

3 House of **Franconia** *1024–1125:* Conrad 2 *1024–39* Henry 3 *1039–56* Henry 4 *1056–1106* Henry 5 *1106–25* House of **Saxony:** Lothaire 2 *1125–37*

4 House of **Hohenstaufen** *1137–97:* Conrad 3 *1138–52* Frederick 1 *1152–90* Henry 6 *1190–97*

5 House of **Hohenstaufen** and **Interregnum** *1198–1272:* Philip *1198–1208* Otto 4 *1208–12* Frederick 2 *1212–50* Conrad 4 *1250–54* William of Holland *1254–56* Richard of Cornwall *1256–72*

6 Houses of **Hapsburg, Luxemburg,** etc. *1273–1378:* Rodolph 1 *1273–91* Adolphus *1291–98* Albert 1 *1298–1308* Henry 7 *1308–13* Louis 4 *1313–47* Charles 4 *1347–78*

7 **Interregnum** *1378–1437:* Wenceslaus *1378–1400* Rupert *1400–10* Sigismund *1410–37*

8 Albert 2 *1438–39* Frederick 3 *1440–93*

9 Maximilian 1 *1493–1519*

.03 **Reformation to 1618** **1517–1618**

1 Charles 5 *1519–1556* 2 Ferdinand 1 *1556–64* 3 Maximilian 2 *1564–76* 4 Rodolph 2 *1576–1612* 5 Matthias *1612–19*

.04 **Disintegration** **1618–1705**

1 Thirty years' war *1618–48* 2 Ferdinand 2 *1619–37* 3 Ferdinand 3 *1637–57* 4 Leopold 1 *1658–1705*

.05 **Rise of Prussia** **1705–89**

1 Joseph 1 *1705–11* 2 Charles 6 *1711–40* 3 *1740–42* 4 Charles 7 *1742–45* 5 Francis 1 *1745–65* 6 *Seven years war 1756–63* 7 Joseph 2 *1765–90*

.06 **Napoleonic wars** **1789–1815**

Leopold 2 *1790–92* Francis 2 *1792–1806* Confederation of the Rhine *1806–15*

.07 **Reorganization** **1815–66**

.08 **New German empire** **1866–1918**

1 North German confederation *1866–71* 2 Franco-German war *1870–71* 3 William 1 *1871–88* 4 Frederick *1888* William 2 *1888–1918* ; Great war *1914–19* and downfall of empire

.085 **German republic** **1918–**

Geografic divisions of Germany and Austria

943.1 **Prussia and Northern Germany**

By peace of Versailles, 1919, most of Posen (.13) and parts of East Prussia (.11) of West Prussia (.12) and Silesia (.14) were restored to Poland. Danzig (.12) as port of Poland made free city with 729 sq. mi. of territory

.11 East Prussia .12 West Prussia, Danzig .13 Posen .14 Silesia .15 Brandenburg .16 Pomerania .17 Mecklenburg and Lubeck .18 Prussian Saxony .19 Anhalt

.2 **Central Germany**

.21 Saxony .22 **Thuringia** .23 Saxe-Weimar .24 Saxe-Altenburg .25 Saxe-Gotha-Coburg .26 Saxe-Meiningen .27 Schwartzburg .28 Reuss

.3 **Bavaria**

.31 Upper Franconia .32 Middle Franconia .33 Lower Franconia .34 Upper Palatinate .35 Lower Bavaria .36 Upper Bavaria .37 Su[illegible]

.4 **Southern Germany**

In 1919 by peace of Versailles 382 sq. mi. of Rhenish Prussia (.42) including Moresnet, Malmédy and Eupen were ceded to Belgium, and 783 sq. mi. of Saar valley to France subject to plebiscit in 1934. Alsace (.44) and Lorraine (.45) taken from France in 1871 were restored. See 944.38

.41 Hesse Darmstadt .42 Rhenish Prussia .43 Rhenish Bavaria .44 Alsace .45 Lorraine .46 Baden .47 Wurtemburg .48 *Black Forest* and *Danube* .49 Hohenzollern

.5 **Northwest Germany**

By peace of Versailles in 1919 part of Schleswig-Holstein (.51) was restored to Denmark

.51 Schleswig-Holstein and Hamburg .52 Oldenburg and Bremen .53 Hanover .54 Brunswick .55 Lippe .56 Westphalia .57 Waldeck .58 Hesse-Nassau

.6 Austria

By peace of Versailles, 1919, Italia Irredenta, i. e. Tyrol (.64) Istria (.68) and part of Dalmatia (.69) were ceded to Italy; the rest of Dalmatia and all Carniola (probably) to Jugoslavia

.61 Lower Austria .62 Upper Austria .63 Salzburg .64 Tyrol .65 Styria .66 Carinthia .67 Carniola .68 Istria .69 Dalmatia

.7 Czechoslovakia

.71 Bohemia .72 Moravia .73 Silesia .74 Galicia .75 Bukowina

.8 Poland Including history before the division

Extinct as state from 3d partition in 1795 til 1919, when its soverenty was restored by the peace of Versailles. See also 943.11–.14, 943.73–.74 and 947.4–.5

9 Hungary, etc.

By the peace of Versailles 1919 the union of Transylvania (.92) with Rumania in 1918 was confirmd; Fiume (.94) was made independent, subject to plebiscit in 4 years; Slavonia (.93) Croatia (.94) Bosnia (.95) and Herzogovina (.96) were recognized as part of Jugoslavia (see 949.71)

.91 Hungary .92 Transylvania .93 Slavonia .94 Croatia. Fiume .95 Bosnia .96 Herzegovina

944 France

Period divisions

.01 **Early history** –987

Ancient Kelts –59 B. C. Roman dominion 59 B. C.–418 A. D. Merovingian dynasty 428–752 Carolingian 752–987

.02 **Capet and Valois** 987–1589

House of **Capet**

1 Hugh Capet *987–996* Robert 2 *996–1031* Henry 1 *1031–60*

2 Philip 1 *1060–1108* Louis 6 *1108–37* Louis 7 *1137–80*

3 Philip 2 *1180–1223* Louis 8 *1223–26* Louis 9 *1226–70*

4 Philip 3 *1270–85* Philip 4 *1285–1314* Louis 10 *1314–16* John 1 *1316* Philip 5 *1316–22* Charles 4 *1322–28*

House of **Valois**

5 Philip 6 *1328–50* John 2 *1350–64* Charles 5 *1364–80*

6 Charles 6 *1380–1422* Charles 7 *1422–61*

7 Lo[illegible] *461–83* Charles 8 *1483–98* Louis 12 *1498–1515*

House o[illegible] **ouléme**

8 Francis 1 *1515–47* Henry 2 *1547–59*

9 Francis 2 *1559–60* Charles 9 *1560–74* Henry 3 *1574–89*

.03 **Bourbon** 1589–1789

1 Henry 4 *1589–1610* 2 Louis 13 *1610–43* 3 Louis 14 *1643–1715* 4 Louis 15 *1715–74* 5 Louis 16 *1774–92*

.04 **Revolution** 1789–1804

1 National assembly *1789–92* 2 First republic *1792–99:* 3 Convention *1792–95* 4 Reign of terror, May *1793*–July *1794* 5 Directory *1795–99* 6 **First consulate,** Napoleon *1799–1804*

.05 **First empire** 1804–1815

Napoleon 1 *1804–14* Louis 18 *1814–15* The hundred days, March 20–June 29, 1815

.06 **Restoration** 1815–1848

1 Louis 18 *1815–24* 2 Charles 10 *1824–30* 3 Louis Philippe *1830–48*

.07 **Second republic and second empire** 1848–1870

Revolution of *1848* Second republic, Louis Napoleon, pres. *1848–52* Napoleon 3 *1852–70*

.08 **Third republic** 1870–

Franco-German war, Government of national defense *1870–71* National assembly *1871* Presidency of Thiers *1871–73* McMahon *1873–79* Grévy *1879–87* Sadi-Carnot *1887–94* Casimir Périer *1894–95* Faure *1895–99* Loubet *1899–1906* Fallières *1906–13* Poincaré *1913–*

Geografic divisions of France

.1 **Brittany Maine Anjou**

.11 Finistère .12 Côtes du Nord .13 Morbihan .14 Loire Inférieure .15 Ille et Vilaine .16 **Maine:** Mayenne .17 Sarthe .18 **Anjou:** Maine et Loire

.2 **Normandy Picardy**

.21 Manche .22 Calvados .23 Orne .24 Eur[illegible] .25 Seine Inférieure .26 **Picardy:** Somme .27 **Artois:** Pas de Calais .28 Nord

944.3 **Champagne Ile de France Lorraine**

.31 Ardennes .32 Marne .33 Aube Haute Marne .34 **Ile de France:** Aisne .35 Oise .36 Seine et Oise, Paris .37 Seine et Marne .38 **Lorraine** (Alsace-Lorraine): .381 Meuse .382 Meurthe et Moselle .383 Alsace (But use .38 for Alsace and Lorraine together) See also 943.44–.45 .39 Vosges

.4 **Burgundy Franche Comté Savoy**

.41 Yonne .42 Côte d'Or .43 Saône et Loire .44 Ain .45 **Franche Comté:** Haute Saône, Belfort .46 Doubs .47 Jura .48 **Savoy:** Savoie .49 Haute Savoie

.5 **Orléans, etc. Auvergne**

.51 Eure et Loir .52 Loiret .53 Loir et Cher .54 **Touraine:** Indre et Loir .55 **Berry:** Indre, Cher .56 **Nivernais:** Nièvre .57 **Bourbonnais:** Allier .58 **Lyonnais:** Loire, Rhône .59 **Auvergne:** Puy de [illegible] Cantal

.6 **Poitou Limousin**

.61 Vendée .62 Deux Sèvres .63 Vienne .64 Charente Inférieure .65 Charente .66 **Limousin:** Haute Vienne .67 Corrèze .68 **Marche:** Creuse

.7 **Guienne Gascony**

.71 Gironde .72 Dordogne .73 Lot .74 Aveyron .75 Tarn et Garonne .76 Lot et Garonne .77 **Gascony:** Landes. Gers .78 Hautes Pyrénées .79 **Béarn:** Basses Pyrénées

.8 **Languedoc**

.81 Haute Loire, Lozère .82 Ardèche .83 Gard .84 Hérault .85 Tarn .86 Haute Garonne .87 Aude .88 **Foix:** Ariège .89 Pyrénées Orientales

.9 **Provence Dauphiny**

.91 Bouches du Rhône .92 Vaucluse .93 Var .94 Alpes Maritimes, Monaco .95 Basses Alpes .96 **Dauphiny** .97 Hautes Alpes .98 Drôme .99 Isère

945 Italy

Period divisions

.01	Gothic and Lombard kingdoms	476–774
.02	Frankish emperors	774–961
.03	German emperors	962–1122
	Hildebrand and papal supremacy	
.04	Age of the communes	1100–1300
	Free cities Strifes of Guelphs and Ghibelines	
.05	Age of the despots	1300–1492
.06	Age of invasions	1492–1527
.07	Spanish-Austrian ascendancy	1527–1796
.08	Struggle for independence	1796–1870
.09	United Italy	1870–
	Victor Emanuel, Cavour, Garibaldi	

Geografic divisions of Italy

945.1 **Piedmont and Liguria**
.2 **Lombardy**
.3 **Venetia**
.4 **Emilia**
.5 **Tuscany**
.6 **Marches, Umbria and Latium**
.7 **Naples**
.71 Abruzzo and Molise .72 Campania .73 Napoli
.74 Salerno .75 Apulia .76 Lecce, Terra di Otranto
.77 Basilicata, Potenza .78 Calabria .79 Reggio di Calabria
.8 **Sicily Malta**
.9 **Sardinia and Corsica**

946 Spain

Period divisions

.01 **Early hist[illegible] Roman dominion Gothic kingdom — 711**
.02 **Moorish kingdom 711–1479**
.03 **Ferdinand 5 and Isabella 1479–1516**
Discovery
Expulsion of the Moors
.04 **Charles 1 and Philip 2 1516–98**
Inquisition War with the Netherlands Armada Charles 1 (5th of Germany) *1516–56* Philip 2 *1556–98*
.05 **Philip 3 — Charles 4 1598–1808**
Degeneration 1 Philip 3 *1598–1621* 2 Philip 4 *1621–65* 3 Charles 2 *1665–1700* 4 House of **Bourbon:** 5 Philip 5 *1700–46* 6 Ferdinand 6 *1746–59* 7 Charles 3 *1759–88* 8 Charles 4 *1788–1808*
.06 **Peninsular war 1808–14**
Joseph Bonaparte
.07 **Bourbon restoration 1814–68**
Attempts at reform
Ferdinand 7 *1814–33* Isabella 2 *1833–68*
.08 **Revolution and 2d restoration 1868—**
Revolution of *1868–70* Amadeus *1870–73* Republic *1873–75*
Alfonso 12 *1875–85* Alfonso 13 *1886–*

Geografic divisions of Spain

.1 **Galicia Asturias**
.2 **Leon Estramadura**
.3 **Old Castile**
.4 **New Castile**
.5 **Aragon**
.6 **Basque provinces**
.7 **Catalonia Balearic iles Valencia Murcia**
.8 **Andalusia Canary iles**

.9 Portugal

.98 Madeira .99 Azores

947 Russia

Period divisions

.01	Primitiv Russia	—862
.02	Varangian kingdom	862–1237
	Conversion to Christianity	
.03	Mongolian invasion	1237–1462
	Civil wars	
.04	Ivan 3–Ivan 5	1462–1689
	Origin of serfdom	
.05	Peter the Great	1689–1725
	Wars with Sweden and Turkey	
.06	Catharine 1–Catharine 2	1725–96
	Partition of Poland	
.07	Paul 1–Nicholas 1	1796–1855
	War with Napoleon	
	Insurrection of Poland	
	Crimean war See also 942.08, 944.07, 945.08, 949.6	
.08	Alexander 2	1855–81
	Emancipation of the serfs	
	Turko-Russian war	
	Alexander 3	1881–94
	Nicholas 2	1894–1917
	Revolution 1917	

Geografic divisions of Russia

.1 Finland Lapland

.2 Northern Great Russia

Archangel, Vologda, Olonetz, Novgorod

.3 Southern Great Russia

.4 Baltic provinces

Courland, Livonia, Esthonia, Petrograd (Petersburg)

.5 Russian Poland

Partly restored to Poland by peace of Versailles 1919. Lithuania

.6 West Russia

.7 Little Russia South Russia

Ukraine

.8 East Russia

.9 Caucasia

948 Norway Sweden Denmark

Period divisions

.01	**Legendary period**	-800
.02	**Consolidation Migration**	801-1397
	Introduction of Christianity	
	Discovery of Iceland, Greenland, and America	
	Conquest of Britain and Normandy	
.03	**Union of the 3 kingdoms**	1397-1523
	Civilization Foren relations	
04	**The reformation**	1523-1648
	Edict of toleration 1527	
	30 years war Gustavus Adolphus	
.05	**Decline**	1648-1792
	Wars vs Denmark, Poland, Russia	
	Political changes	
.06	**Napoleonic wars**	1792-1818
	Union of Norway and Sweden 1814	
.07	**Charles 14 (Bernadotte)**	1818-
	Peace Internal reform	
.08		

Geografic divisions

.1	**Norway**
.2	**Christiania**
.3	**Christiansand Bergen**
.4	**Hamar Throndhjem Tromso**
.5	**Sweden**
.6	**Gothland**
.7	**Svealand**
.8	**Norrland**
.9	**Denmark**

949 Minor countries of Europe

.1 **Iceland Faroe ilands**

01 Commonwelth *-1264* 02 Medievalism *1264-1551* 03 Absolute rule, Decay *1551-1848* 04 Modern Iceland *1848-*

.2 **Netherlands**

01 Early history *-1477* 02 Austrian dominion *1477-1566* Wars for independence *1566-1648* 04 Age of prosperity *1648-1795* 05 Revolutionary *1795-1830* 06 19th century *1830-1900* 07 20th century *1901-*

.3 **Belgium**

.4 **Switzerland**

01 Early history *-1300* 02 Struggle for independence *1300-1499* 03 Reformation *1499-1648* 04 Period of tranquillity *1648-1789* 05 Period of revolution *1789-1815* 06 19th century *1815-1900* 07 20th century *1901-*

949.5 **Byzantine empire and modern Greece**

01 **Greek revival** 323–716
Constantine the great–Theodosius 3

02 **Byzantine prosperity** 716–1057
Leo 3–Michael 6

03 **Byzantine decline** 1057–1204
Isaac 1–Latin conquest of Constantinople

04 **Greek survival** 1204–1453
Constantinople taken by the Turks, 1453

05 **Turkish power** 1453–1821

06 **Greek independence** 1821–

.6 **Turkey in Europe Balkan states** .61 Constantinople
Also works covering Turkey in Asia

.7 **Jugoslavia: Serbia, Montenegro Bulgaria**

.8 **Rumania: Wallachia, Moldavia, Dobruja**

.9 **Ilands of Greek archipelago**
Divided like 939.1

950 Asia

951 China

.1 N. E. China, Peking .2 S. E. China, Canton, Hong Kong, Taiwan (Formosa) .3 S. W. China .4 N. W. China .5 Tibet .6 East Turkestan .7 Mongolia .8 Manchuria .9 **Chosen** (Korea)

952 Japan

953 Arabia

.1 Sinai .2 Hejaz, Mecca .3 Yemen .4 Hadramaut, Mahrah .5 Oman .6 Hasa .7 Dahna .8 Nejd .9 Syrian desert

954 India

.1 Bengal, Orissa, Assam, Bhotan .2 Northwest provinces, Oudh, Nepal .3 Central provinces .4 Rajputana .5 Punjab, Delhi, Lahore .6 Kashmir .7 Bombay, Sind, Baroda .8 Madras, Mysore, Travancore, Ceylon .9 Hyderabad

955 Persia

956 Turkey in Asia See also 949.6

.1 Khodavendigar .2 Aidin, Smyrna .3 Kastamuni, Angora .4 Konieh, Adana, Cyprus .5 Trebizond, Sivas .6 Armenia and Kurdistan: Erzerum; Mamuret el Aziz, Karput; Diarbekr; Bitlis; Van .7 Mesopotamia: Mosûl; Bagdad; Basra .8 Aleppo .9 Syria, Damascus, Phenicia, Palestine

957 Siberia

958 Afghanistan Turkestan Baluchistan

.1 N. E. Afghanistan, Kabul .2 South Afghanistan, Kandahar .3 N. W. Afghanistan, Herat .4 **Turkistan** .5 Kiva .6 Bokhara .7 Ferghana or Khokan .8 **Baluchistan**

959 Farther India

.1 British Burma .2 Burma .3 Siam .4 Laos .5 Lower Siam, Malay peninsula .6 Cambodia .7 French Cochin China .8 Anam .9 Tonkin

960 Africa

961 North Africa

.1 Tunis .2 Tripoli .3 Fezzan

962 Egypt

.1 Lower Egypt, Alexandria, Cairo .2 Middle Egypt .3 Upper Egypt, Thebes .4 Nubia .5 Dongola .6 Egyptian Sudan. Kartum .7 Darfur .8 Kordofan .9 Sennaar

963 Abyssinia

964 Morocco

965 Algeria

966 North Central Africa

.1 Sahara .2 Sudan .3 Senegambia, Senegal .4 Sierra Leone .5 Upper Guinea .6 Liberia .7 Ashanti .8 Dahomey, Togo .9 Gold Coast

967 South Central Africa

.1 Lower Guinea, Kamerun .2 Loango. French Kongo .3 Portuguese West Africa, Angola, Benguela .4 Interior .5 Free State, Kongo basin .6 Central lake region: British East Africa, Uganda .7 Somali .8 Zanzibar .9 Mozambique, Portuguese East Africa

968 South Africa

.1 Sofala .2 Transvaal .3 Zululand .4 Natal .5 Orange Free State .6 Kaffraria .7 Cape Colony .8 West Coast .9 Interior: Rhodesia, Mashona

969 Madagascar Mauritius

970 North America

.1 Indians, aborigines .2 Lives of Indians .3 Special tribes .4 Special states .5 Government relation and treatment .6 Special subjects: character, civilization, agriculture, etc.

See 371.975 Education; 572.97 Ethnology; 497 Languages

971 Canada British America

General works on Canada under British rule

For histories of special periods see 971.01–.054; of special provinces see 971.1–.9

For constitutional history see 342.71

Period subdivisions

For works not limited to any of the territorial subdivisions .1–.9 but dealing with a limited period

Class archives with their periods and segregate them if wisht by booknumbers that will automatically locate them ahed of other histories having the same class number: e.g. A1–A9 if Cutter numbers are used for other works; Aa–Az if Cutter-Sanborn numbers are used

.01 French regime 1497–1763

From earliest time til cession to England

.011 Discovery and early settlement 1497–1632

Early explorations along Atlantic seaboard 1497–1533. Discovery and occupation of St Lawrence 1534–43. Rise of fur trade 1544–1612. Permanent colonization 1613–32

.016 Extension of English rule 1632–1763

Treaty of St Germain-en-Laye 20 Mar. 1632

.018 Struggle with England for supremacy

Peace of Utrecht 1713–Peace of Paris 1763. Seven years war 1755–63; in United States cald French and Indian war. British supremacy dates actually from fall of Quebec, 1759; formally from peace of Paris, 10 Feb. 1763

.02 End of 7 years war to constitutional act 1791

Conspiracy of Pontiac 1763–64

Quebec act 1774

.024 American revolution United Empire loyalists

Canadian libraries will class here United Empire loyalists, but works on the revolution 1775–83 are better put in 973.3

.03 1792 to Union act 1841

See also 971.3 Ontario and 971.4 Quebec

.034 War of 1812

1812–15 In United States cald also 2d war for independence

Better clast in 973.52 (United States history)

.038 Rebellion 1837–38

.039 Union act 10 Feb. 1840

Passage of Union act, closing the period under the Constitutional act. See also constitutional history, 342.719

.04 Union 1841 to Confederation 1867

Beginning with operation of Union act; Canadian parliament at Ottawa 13 June 1841. Class clergy reservs agitation in 971.3 Ontario; abolition of seigniories in 971.4 Quebec

.048 Fenian invasions

.049 British North America act, 29 March 1867

.05 Dominion of Canada 1867–

Canada under British North America act

.051 Red river (Riel's 1st) rebellion 1870

.054 Northwest (Riel's 2d) rebellion 1885

Geographic divisions

[illegible] **British Columbia**

[illegible] **Northwest Territories**

[illegible] Including inner Hudson Bay islands

[illegible] **Yukon**

[illegible] Dawson City

[illegible] **Maritime**

[illegible] **Alberta**

[illegible] **Saskatchewan**

[illegible] **Manitoba**

[illegible] Churchill

[illegible] See also [illegible]

[illegible] **Ontario**

For St Lawrence river see [illegible]

Formerly also Upper Canada or Canada West

See also [illegible] Lake Nipigon reserve

[illegible] **Northwestern**

[illegible] Area south of Lake Superior and Lake Huron, Georgian Bay

[illegible] Rainy River District

[illegible] Lake of the Woods, Rainy Lake

[illegible] Thunder Bay District

[illegible] Fort William

[illegible] Algoma District

[illegible] Sault Ste Marie

[illegible] Manitoulin Island

[illegible] Nipissing District

[illegible] Parry Sound, Muskoka District

[illegible] Muskoka, Lake of Bays District

[illegible] Simcoe

[illegible] Grey, Owen Sound, Collingwood

[illegible] **Western**

East shore of Lake Huron

[illegible] Bruce

[illegible] Huron

[illegible] Perth

[illegible]

[illegible] Middlesex

[illegible] London City

[illegible] Lambton

[illegible] **Southwestern**

North shore of Lake Erie

[illegible] Essex

[illegible] Windsor City

[illegible] Kent

[illegible] Elgin

[illegible] St Thomas City

[illegible] Norfolk

[illegible] Haldimand

[illegible] Welland

971.34	**West central**
.341	Dufferin
342	Wellington
.343	*Guelph* (city)
.344	Waterloo
.345	*Berlin* (city)
.346	Oxford
347	Brant
.348	*Brantford* (city)
971.35	**Southern**
	West and North shore of Lake Ontario
.351	Lincoln
	St Catherines (city)
.352	Wentworth
	Hamilton (city)
.353	Halton · Peel
.354	York
1	*Toronto* (city)
.355	Ontario
.356	Durham
.357	Northumberland
.358	Hastings
7	Prince Edward
.359	Lennox and Addington
.36	**Central**
.361	Haliburton
.362	
.363	
.364	Victoria
.365	
.366	
.367	Peterborough
.368	*Peterborough* (city)
.369	
.37	**Southeastern**
	St Lawrence river counties
.371	Frontenac
.372	*Kingston* (city)
.373	Leeds
	Rideau lakes and canal
.374	Grenville
.375	Dundas
.376	Stormont
.377	Glengarry
.378	
.379	
.38	**Northeastern**
	Ottawa river counties
.381	Renfrew
.382	Lanark
.383	Carleton
.384	*Ottawa* (city)
.385	Russell
.386	Prescott

971.4 Quebec St Lawrence river

Lower Canada or Canada East

From its cession by France to England in 1763 all Canada was one colony, the Province of Quebec, till 1791. In 1791 it was divided by the constitutional act into 2 provinces: Upper Canada (Ontario) and Lower Canada (Quebec). By the union act, 1840, the 2 provinces were reunited as the Province of Canada: union in 1867 by the British North America act again divided into the provinces of Ontario and Quebec. Quebec is from Caudebec (Normandy), home of many of its erly settlers.

.41 **Northern**
.411 Mistassini
.412 Abitibi
.414 Lake St John
.416 Chicoutimi
.417 Saguenay Anticosti iland
.419 Ashuanipi
.42 **Western** Ottawa river counties
.421 Pontiac
.422 Ottawa (former county)
1 Wright
2 *Hull* (city)
5 Labelle
.423 Argenteuil
.424 Terre Bonne
.425 Two Mountains
.426 Vaudreuil
5 Soulanges
.427 Laval
.428 Hochelaga
1 *Montreal* (city)
5 Jacques Cartier
.43 **Southwestern** South of the St Lawrence and west of Richelieu river
.431 Huntingdon
.432 Beauharnois
.433 Chateaugay
.434 La Prairie
.435 Napierville
.436 Verchères
.437 Chambly
.438 St Johns
.44 **North central** North of St Lawrence from Montreal to Saguenay river
.441 Montcalm
6 L'Assomption
.442 Joliette
.443 Berthier
.444 Maskinonge
.445 St Maurice
.446 Champlain
6 Portneuf
.447 Quebec
1 *Quebec* (city)
.448 Montmorency
Île d'Orléans
.449 Charlevoix

971.45 **South Central**
Counties south of St Lawrence from Richelieu river to Quebec
·451 Richelieu
·452 St Hyacinthe
5 Bagot
·453 Rouville
·454 Yamaska
·455 Nicolet
·456 Drummond
5 Arthabaska
·457 Wolfe
5 Megantic
·458 Lotbinière
·459 Levis
·46 **Southern**
Southern border from Richelieu river to Lake Megantic
·461 Iberville
·462 Missisquoi
·463 Shefford
·464 Brome
·465 Richmond
·466 Sherbrooke
Sherbrooke (city)
·467 Stanstead
·468 Compton
·469 Lake Megantic
·47 **Southeastern**
Lower St Lawrence, southern side from Quebec to Gulf of St Lawrence
·471 Beauce
·472 Dorchester
·473 Bellechasse
5 Montmagny
·474 L'Islet
·475 Kamouraska
·476 Temiscouata
·477 Rimouski
5 Matane
·478 Bonaventure
·479 Gaspé
7 Magdalen ilands

·5 New Brunswick

·51 **Northern**
·511 Restigouche
·512 Gloucester
·52 **Eastern**
·521 Northumberland
·522 Kent
·523 Westmoreland
Monckton (city)

971.53 **Southern**
.531 Albert
.532 St John
St John (city)
.533 Charlotte
Grand Manan iland
.54 **Central**
.541 Kings
.542 Queens
.543 Sunbury
.55 **Western**
.551 York
Fredericton (city)
.552 Carleton
.553 Victoria
.554 Madawaska

.6 Nova Scotia
.61 **Northern**
.611 Cumberland
.612 Colchester
.613 Pictou
.614 Antigonish
.62 **Southern**
.621 Guysborough
.622 Halifax co. and city
.623 Lunenburg
.624 Queens
.625 Shelburne
.63 **Western**
.631 Yarmouth
.632 Digby
.633 Annapolis
.634 Kings
.635 Hants

.69 Cape Breton (iland)
.691 Inverness
.693 Victoria
.695 Cape Breton
.696 *Sydney* (city)
.698 Richmond

.7 Prince Edward Island
.71 Prince
.74 Queens
.75 *Charlottetown* (city)
.77 Kings

.8 Newfoundland

.9 Labrador

For Moravian missions see 266.46

972 Mexico Central America

. Period divisions

.01	Ancient civilization	— 1516
	1 Toltec 2 Chichimec 3 Tarascan 4 Aztec 5 Maya	
.02	Discovery and Spanish rule	1516–1810
.03	Independence	1810–1822
.04	First empire Iturbide 1 Pronunciamientos	1822–1845
.05	War with United States. See also 973.6	1845–1848
.06	Constitution of '57 Reform	1848–1861
.07	French intervention	1861–1867
.08	Later history	1867–

Geografic divisions

.1 **Free zone and Northern states**
Tamaulipas, Nuevo Leon, Cohahuila, Chihuahua, Sonora, Durango

.2 **Lower California and ilands**

.3 **Central Pacific states**
Sinaloa, Jalisco, Colima, Michoacan

.4 **Interior states**
Zacatecas, San Luis Potosi, Aguascalientes, Guanajuato Querétaro, Hidalgo, Puebla, Tlascala, Morelos

.5 **Mexico Federal district**

.6 **Southern Gulf states**
Vera Cruz, Tabasco, Campeche, Yucatan

.7 **Southern Pacific states**
Guerrero, Oaxaca, Isthmus of Tehuantepec, Chiapas

.8 Central America

.81 **Guatemala**

.82 **British Honduras Belize**

.83 **Honduras**

.84 **San Salvador**

.85 **Nicaragua**

.86 **Costa Rica**

.9 West Indies

.91 **Cuba**

.92 **Jamaica**

.93 **Santo Domingo**

.94 **Hayti**

.95 **Porto Rico**

.96 **Bahamas**

.97 **Leeward ilands**

.98 **Windward ilands Barbados**

.99 **Bermudas**

973 United States

SUMMARY OF 973

.1	Discovery	—1607
.2	Colonial	1607—1775
.3	Revolution	1775—1789
.4	Constitutional	1789—1809
.5	War of 1812	1809—1845
.6	War with Mexico	1845—1861
.7	Civil war	1861—1865
.8	Later 19th century	1865—1901
.91	Early 20th century	1901–

See also 342.73 U. S. constitutional law and history; 328.73 U. S. legislativ bodies and annals; 329 Political parties; 353 U. S. government

.1 Discovery —1607

From earliest times to settlement of Jamestown

See also 970.1–6 American indians; 913.7 American antiquities; 571.91 Mounds and mound bilders; 571.85 Pueblos

.11 Precolumbian

For precolumbian claims of Chinese, Norse, Welsh, etc. see .12 to .18 below

Arabs
Jews
Africans
Irish
Poles
Germans Martin Behaim
Italians

.12 Chinese

.13 Norse
- Gunnbiorn
- Eric the Red
- Leif Ericson
- Bjarni Herjulfson
- Thorwald
- Thorfinn Karlsefne

14 Welsh
- Prince Madoc

.15 Columbus

.16 Spanish and Portuguese

Dates of voyages are added to names

Amerigo Vespucci 1497–1504
Gaspar and Miguel Cortereal 1500–2 Labrador
Juan Ponce de Leon 1513–21 Florida
Vasco Nuñez de Balbóa 1513 Pacific ocean
Hernando Cortés 1518–40 See also 972.02 History of Mexico
Fernando da Magalhaens 1518–21 Magellan straits
Francisco Pizarro 1524–41 See also 985 History of Peru
Hernando de Soto 1539–42 Mississippi river
Francisco Vasquez de Coronado 1540–42 New Mexico, Arizona, Colorado

.17 English

John and Sebastian Cabot 1497–1530
Sir John Hawkins 1562–69
Sir Francis Drake 1570–80
Sir Martin Frobisher 1576–78
Sir Humphrey Gilbert 1578–83
Sir Walter Ralegh 1578–1602
John Davis 1585–87
Bartholomew Gosnold 1602–07

973.18 **French**

Giovanni da Verrazano 1524
Jacques Cartier 1534–44 Canada
Jean Ribault 1562–65 Florida
René de Laudonnière 1564–66 Florida
Samuel de Champlain 1603–35 See also 971 History of Canada

.19 **Other nations**

.2 **Colonial Period** 1607–1775

See also histories of separate colonies

.21 **Virginia settlement 1607–20**

Settlement of Jamestown 13 May 1607 See 975.5 Virginia history
Hudson's voyage 1609 See also 974.7 N. Y. history

James 1 1603–25

.22 **New England settlement 1620–43**

Settlement of Plymouth 21 Dec. 1620 See 974.4 Mass. history
Pequot war 1636–37 Connecticut

Charles 1 1625–49

.23 **New England confederacy 1643–64**

United colonies of New England 19 May 1643

Commonwelth 1649–53
Oliver Cromwell 1653–58
Richard Cromwell 1658–59

.24 **Conquest of New Netherlands 1664–89**

King Philip's war 1675–76 Massachusetts
War with eastern indians 1675–78 Maine
Sir Edmund Andros, governor of New England 1686–89

Charles 2 1660–85
James 2 1685–88

.25 **Early French wars 1689–1732**

Witchcraft in New England See 133.4
King William's war 1689–97
Sometimes cald in Europe 'War of the Palatinate'
Queen Anne's war 1702–13
Known in Europe as War of the Spanish succession

William 3 1689–1702
Anne 1702–14
George 1 1714–27

.26 **Extension of English rule 1732–63**

Settlement of Georgia 1732 See 975.8 Georgia history
King George's war 1744–48
Known in Europe as War of the Austrian succession
Albany convention assembled 19 June 1754
French and indian war 1755–63
Known in Europe as Seven years war
Braddock's defeat 9 July 1755
Crown Point and Ticonderoga 1758–59
Capture of Louisburg 27 July 1758
Capture of Quebec 18 Sep. 1759; Montcalm and Wolfe
Peace of Paris 10 Feb. 1763

George 2 1727–60

.27 **Last years of the colonies 1763–75**

See also specially 973.311 Causes of the Revolution
Conspiracy of Pontiac 1763–64
Bouquet's expedition 1763–64
Lord Dunmore's war Ap.-Oct. 1774 Virginia

George 3 1760–1820

973.3 Revolution and confederation 1775–89

SUMMARY OF 973.3

.31 Political history
.32 Diplomatic history
.33 Special campains and battles
.34 General military history
.35 Naval history
.36 Celebrations
.37 Prisons, hospitals
.38 Personal narrativs
.39 Illustrativ material

.31 Political history; causes, results

For financial history see 336.73

.311 Causes 1775
1 Stamp act 1765
2 Navigation acts; mercantil policy
Burning of the Gaspé 17 June 1772
3 Boston massacre 5 Mar. 1770
4 Taxation and representation
5 Tax on tea 1767 Boston tea party 16 Dec. 1773
6 Boston port bill 1774

.312 Political history 1775–83
Continental congress See 328.73 U. S. legislativ bodies

.313 Declaration of independence 4 July 1776 See also 973.361
Mecklenburg declaration 20 May 1775

.314 Loyalists, tories See also 973.381 Treason and traitors

.315 Relations of special classes to the Revolution
Clergy and churches
Lawyers
College graduates

.316

.317 Treaty of peace 1783
Concluded at Paris 3 Sep. 1783; ratified 14 Jan. 1784

.318 Confederation 1783–89
Shay's rebellion 1786–87 Massachusetts
Cession of western territory to United States

.319

.32 Diplomatic history; relations with other nations

Divided like 940; e. g. 973.324 Relations with France; 973.326 Relations with Spain

.33 Special campains and battles

.331 Campains of 1775
1 Lexington and Concord 19 April See also 973.362
2 Bunker Hill 17 June See also 973.366
3 Siege of Boston June 1775-March 1776
4 Ticonderoga 10 May
Crown Point 12 May
5 Canadian expeditions
Montgomery
6 Arnold
7
8 Events in the south

973.332 Campains of 1776
1 Campain for the Hudson
2 Battle of Long Island 27 Aug.
3 British occupation of New York
4 American retreat Sep.–Nov. 1776
Harlem Hights 16 Sep.
White Plains 28 Oct.
Fort Washington 16 Nov.
5 Washington in the Jerseys Dec. 1776–Jan. 1777
6 Trenton 26 Dec.
Princeton 3 Jan. 1777
7
8 Events in the south
North Carolina
Fort Moultrie, Sullivan's iland 28 June

.333 Campains of 1777
1 Events in Connecticut and Rhode Island
2 Burgoyne's campain
Ticonderoga evacuated 6 July
Hubbardton, Vt 7 July
Bennington, Vt 16 Aug.
3 Freeman's farm or Bemis Hights or Stillwater 19 Sep.
Bemis Hights or Saratoga 7 Oct.
Burgoyne's surrender 17 Oct.
4 Fort Stanwix or Fort Schuyler or Oriskany 2–22 Aug.
5 Clinton's advance up the Hudson
Forts Clinton and Montgomery 6 Oct.
6 Howe's campain
Brandywine 11 Sep.
Paoli 20 Sep.
7 Philadelphia taken by British 27 Sep.
Germantown 4 Oct.
Forts on the Delaware
Red Bank, or Fort Mercer 22 Oct.
Mud iland, or Fort Mifflin 10–16 Nov.
8 Events in south Including Kentucky

.334 Campains of 1778
1 Washington at Valley Forge 1777–78
2 Events in middle states
Battle of Monmouth 28 June
3 Evacuation of Philadelphia June
4 Indian depredations See also 973.343
Wyoming 1–4 July
5 Mohawk valley
Cherry valley 11 Nov.
Brant See also 970.2 Indian biografy
6 Rhode Island campain, August See also 973.354 Naval history
7 Events in the south
Capture of Savannah 29 Dec.
8 Events in northwest 1778–79
Clark's expedition
Vincennes, Ind. 2 Jan. and 20 Feb. 1779

973.335 Campains of 1779
1 Events in New England
Tryon in Connecticut July
2 Penobscot expedition Aug. and Sep.
3 Events in middle states
Minisink 19 July
4 Wayne at Stony Point 16 July
5 Paulus Hook 19 Aug.
6 Sullivan's expedition July–Sep.
7 Events in the south
Briar creek 3 Mar.
Siege of Savannah 23 Sep. and 18 Oct.
8 Events in northwest See 973.3348

.336 Campain of 1780
1 Southern campains
Waxhaws, N. C. 29 May
Ramsour Mills, N. C. 20 June
Leslie's expedition into Virginia Oct
2 Siege of Charleston Mar.–May
3 Camden, S. C. 16 Aug.
4 Kings mountain, S. C. 7 Oct.
5 Events in middle states
Springfield, N. J. 23 June
Bull's Ferry, N. Y. 21 July
6 Northern invasion

.337 Campains of 1781
1 Southern campains
2 Events in Carolinas Jan.–Ap.
Cowpens, S. C. 17 Jan.
Guilford, N. C. 15 Mar.
Hobkirks hill, S. C. 25 Ap.
3 Events in Carolinas May–Dec.
Fort Ninety-Six, S. C. May–June
Eutaw Springs, S. C. 8 Sep.
4 British in Virginia
5 Siege of Yorktown Sep.–Oct.
Surrender of Cornwallis 19 Oct.
6 Events in the north
7 Arnold in Connecticut Sep.

.338 Campains of 1782

.339 Events of 1783
British evacuation of New York 25 Nov. See also 973.363

973.34 **General military history**
.341 English side
.342 Mercenaries; Hessians
.343 Indians
.344 American side
Part taken by special states, specially the northern states. Under the number for each state use the book numbers A1–A19 for official publications, A2 for lists of revolutionary soldiers
1
2 New Hampshire
3 Vermont Not then a state, admitted 1791
4 Massachusetts
5 Rhode Island
6 Connecticut
7 New York
8 Pennsylvania
9 New Jersey
.345 Southern states
1 Delaware
2 Maryland
5 Virginia
6 North Carolina
7 South Carolina
8 Georgia
.346 American auxiliaries
.347 French
.348
.349 Special topics
Conway cabal 1777–78
Mutiny of Pennsylvania line Jan. 1781
Newburg addresses 1782–83
.35 **Naval history**
.351 Events of 1775
Capture of the Margaretta June 12
.352 Events of 1776
Escape of British sloop of war Glasgow 6 Ap.
Battle of Lake Champlain 11–13 Oct.
Gen. Benedict Arnold
.353 Events of 1777
Lexington and Alert 20 Sep.
.354 Events of 1778
French fleet at Newport
.355 Events of 1779
Bon Homme Richard and the Serapis 23 Sep.
.356 Events of 1780
Trumbull and Watt 2 June
.357 Events of 1781
Alliance and British brigs Atalanta and Trepassey 28 May
.358 Privateers

973.36 **Celebrations, anniversaries, commemorations**

These should usually be clast with the special event commemorated, but some anniversaries are of such general character as to be better clast here. For Patriotic societies of the revolution see 369.13

.361 Fourth of July See also 973.313
.362 19th of April See also 973.3311
.363 Evacuation day, New York See also 973.339
.364
.365 Monuments, memorials See also 718
.366 Bunker Hill monument See also 973.3312
.367 Washington's various hedquarters
Newburg, N. Y.
Morristown, N. J.

.37 **Prisons, hospitals, etc.**

.371 English prisons
1 Jersey prison ship
2 Sugar house prison
.372 American prisons
.373 Exchange of prisoners
.374
.375 Medical dep't; surgeons, nurses, etc.
.376 Hospitals
.377
.378
.379

.38 **Personal narrativs, vindications, secret servis**

.381 Treason and traitors See also 973.314 Loyalists, tories
.382 Benedict Arnold
.383 Charles Lee
.384
.385 Secret servis, spies
American side: Nathan Hale
.386 British side: Major John André

.39 **Illustrativ material**

These numbers should be used mainly for references. Poems, dramas etc. should usually be clast under their own numbers, 811, 812, etc. but special collections should be clast here

.391 Poetry
.392 Drama
.393 Fiction
.394 Addresses
.395 Sermons
.396 Humor
.397 Pictures
Paintings, drawings, caricatures, engravings, photografs, sculpture
.398 Music
.399 Maps

973.4 **Constitutional period** 1789–1809

See 342.73 U. S. constitution; 329.1 Federal party 1789–1823; 329.2 Antifederal party 1789–92

.41 **George Washington** 30 Ap. 1789–4 Mar. 1797

Born 22 Feb. 1732; died 14 Dec. 1799

Sworn into offis 30 Ap. 1789

National bank establisht 25 Feb. 1791 See 332.11

Vermont admitted, 14th state 4 Mar. 1791 See 974.3

Kentucky admitted, 15th state 1 June 1792 See 976.9

.42 Indian wars

Harmar's expedition 1790

St Clair's expedition 1791

.43 Washington's 2d term 4 Mar. 1793–4 Mar. 1797

Neutrality proclamation 22 Ap. 1793 See also 341.3

Whisky insurrection July–Nov. 1794

Wayne's expedition, Oct.–Nov. 1794, and treaty, 3 Aug. 1795

Jay's treaty 28 Oct. 1795 See also 341.2

Treaty with Spain 27 Oct. 1795 See also 341.2

Tennessee admitted, 16th state 1 June 1796 See 976.8

.44 **John Adams** 4 Mar. 1797–4 Mar. 1801

Born 31 Oct. 1735; died 4 July 1826

Alien act 25 June 1798 See 341.5

Sedition act 14 July 1798 See 323

Removal of capitol to Washington

.45 Troubles with France

Naval battles; Constellation and L'Insurgent 9 Feb. 1800

.46 **Thomas Jefferson** 4 Mar. 1801–4 Mar. 1809

Born 2 Ap. 1743; died 4 July 1826

Ohio admitted, 17th state 19 Feb. 1803 See 977.1

Purchase of Louisiana 2 May 1803

.47 Wars with Barbary states

.48 Jefferson's second term 4 Mar. 1805–4 Mar. 1809

Aaron Burr's conspiracy 1806

See also 923.27 lives of Burr; and 343.1 Trials

Embargo act 22 Dec. 1807

.5 **War of 1812** 1809–45

.51 **James Madison** 4 Mar. 1809–4 Mar. 1817

Born 16 Mar. 1751; died 28 June 1836

Engagement between ships President and Little Belt 16 May 1811

Defeat of indians by Gen. Harrison at Tippecanoe 7 Nov. 1811

Louisiana admitted, 18th state 30 Ap. 1812 See 976.3

Indiana admitted, 19th state 11 Dec. 1816 See 977.2

973.52 War of 1812
War declared 18 June 1812. Treaty of peace 24 Dec. 1814

.521 Political history; causes, results
Hartford convention

.522 Diplomatic history

.523 Special campains and battles

1 Campain in northwest
Includes all west of New York
Surrender of Detroit 16 Aug. 1812

2 Events in northwest 1813–14

3 Campain in New York, New England and Canada
Battle of Queenstown 13 Oct. 1812

4 Events in New York and New England 1813
Capture of Fort Niagara 19 Dec.

5 Events in Canada 1813
Capture of Fort George 27 May
Battle of Thames 5 Oct.

6 Events in New York and New England 1814
Bombardment of Stonington, Conn. 9–12 Aug.

7 Events in Canada 1814
Capture of Fort Erie 3 July
Battle of Chippewa 5 July
Battle of Lundy's lane 25 July

8 Campain in the south
Battle of Bladensburg 24 Aug. 1814
Burning of Washington 24 Aug. 1814
Bombardment of Fort McHenry 13 Sep. 1814

9 Events in Louisiana
Battle of New Orleans 22 Dec. 1814–8 Jan. 1815

.524 General military history

1 English side

2 Indian allies

3

4 American side in general
Divided like 974. Under the number for each state use the book numbers A1–A19 for official publications, A2 for lists of soldiers

5 South Atlantic states
Divided like 975

6 Gulf states
Divided like 976

7 Lake states
Divided like 977

973.525 Naval history
1 Events of 1812
Constitution and Guerrière 19 Aug.
Wasp and Frolic 18 Oct.
United States and Macedonia 25 Oct.
Constitution and Java 29 Dec.
2 Events on inland waters
3 Events of 1813
Hornet and Peacock 24 Feb.
Chesapeake and Shannon 1 June
Pelican and Argus 14 Aug.
Enterprize and Boxer 5 Sep.
4 Events on inland waters
Battle of Lake Erie 10 Sep.
5 Events of 1814
Essex against Phoebe and Cherub 28 Mar.
Peacock and Epervier 29 Ap.
Wasp and Reindeer 28 June
Wasp and Avon 1 Sep.
Wasp and Atlanta 21 Sep.
6 Events on inland waters
Battle on Lake Champlain 11 Sep.
7 Events of 1815
Capture of frigate President 15 Jan.
Capture of Cyane and Levant by the Constitution 20 Feb.
Hornet and Penguin 23 Mar.
8 Privateers
.526 War meetings, celebrations, anniversaries, etc.
See note under 973.36
See 369.14 societies of the war of 1812
.527 Prisons, hospitals, etc.
1 English prisons Dartmoor
.528 Personal narrativs, vindications, secret servis
.529 Illustrativ material Divided like 973.39
.53 Algerine war
.54 **James Monroe** **4 Mar. 1817–4 Mar. 1825**
Born 28 Ap. 1758; died 4 July 1831
Mississippi admitted, 20th state 10 Dec. 1817 See 976.2
Illinois admitted, 21st state 3 Dec. 1818 See 977.3
Purchase of Florida 25 Feb. 1819
Alabama admitted, 22d state 14 Dec. 1819 See 976.1
Maine admitted, 23d state, 15 Mar. 1820 See 974.1
Missouri compromise See 326.973 and 973.7113
Missouri admitted, 24th state 10 Aug. 1821 See 977.8
Monroe doctrin Dec. 1823 See 327.73
Tariff act 22 May 1824 See 337
.541 First Seminole war 1818
.55 **John Quincy Adams** **4 Mar. 1825–4 Mar. 1829**
Born 11 July 1767; died 23 Feb. 1848
Erie canal completed 1825 See 386
Panama congress 1826 See 341.1
Removal of Creek indians 1825–29 See 970.3
Tariff act 19 May 1828 See 337

973.56 **Andrew Jackson** **4 Mar. 1829–4 Mar. 1837**
Born 15 Mar. 1767; died 8 June 1845
Rotation in offis See 351.6
United States bank See 332.11
Whig party See 329.4
Compromise tariff act 3 Mar. 1833 See 337
Independence of Texas 2 Mar. 1836 See 976.4
Arkansas admitted, 25th state 15 June 1836 See 976.7
Specie circular 11 July 1836 See 336.73
Michigan admitted, 26th state 26 Jan. 1837 See 977.4
.561 Nullification See also 342.73
Webster and Hayne debate 25–27 Jan. 1830
Nullification ordinance, South Carolina 24 Nov. 1832
.562 Black Hawk war 1832
.57 **Martin Van Buren** **4 Mar. 1837–4 Mar. 1841**
Born 5 Dec. 1782; died 24 July 1862
Panic of 1837 See 332
Alton riot 7 Nov. 1837 See 326.973
Burning of Caroline 26 Dec. 1837
Northeast boundary, Aroostook war Feb.–Mar. 1839
Amistad case 1839
.571 Second Seminole war 1835–42
.58 **William Henry Harrison** **4 Mar. 1841–4 Ap. 1841**
Born 9 Feb. 1773; died 4 Ap. 1841
John Tyler **4 Ap. 1841–4 Mar. 1845**
Born 29 Mar. 1790; died 18 Jan. 1862
Dorr's rebellion May–June 1842 See 974.5
Ashburton treaty, northeast boundary
Texas annexation resolution 28 Feb. 1845
Florida admitted, 27th state 3 Mar. 1845

.6 War with Mexico 1845-61

.61 **James Knox Polk** **4 Mar. 1845–4 Mar. 1849**
Born 2 Nov. 1795; died 15 June 1849
Texas annext, 28th state 29 Dec. 1845 See 976.4
Wilmot proviso adopted by house 8 Aug. 1846 See also 973.7113
Iowa admitted, 29th state 28 Dec. 1846 See 977.7
Wisconsin admitted, 30th state 29 May 1848 See 977.5
Free soil party; Buffalo convention Aug. 1848 See 329.6
.611 Northwest boundary; Oregon; treaty with England 12 June 1849
.62 Mexican war 1845–48
War declared 13 May 1846; treaty of peace 30 May 1848
.621 Political history; causes, results
Annexation of Texas
Acquisition of California, Nevada, Utah, Arizona, etc.
.622 Diplomatic history
.623 Special campains and battles
1 Kearny in New Mexico
2 Fremont in California
3 Taylor's campain
4 On the Rio Grande
Palo Alto 8 May 1846
Resaca de la Palma 9 May
Matamoras 18 May
5 In Mexico
Monterey 20–25 Sep. 1846
Buena Vista 22–23 Feb. 1847

973.623 6 Scott's campain
7 Vera Cruz 22–29 Mar. 1847
Cerro Gordo 17–18 Ap.
8 Battles near Mexico
Contreras 19–20 Aug.
San Antonio 20 Aug.
Churubusco 20 Aug.
9 Capture of Mexico
Molino del Rey 8 Sep.
Chapultepec 12–13 Sep.
Mexico 14 Sep.
.624 General military history
.625 Naval history
.626 War meetings, celebrations, anniversaries
See note under 973.36; also 369.145 Aztec club of 1847
.627 Prisons, hospitals, etc.
.628 Personal narrativs
.629 Illustrativ material See note under 973.39
.63 **Zachary Taylor** **5 Mar. 1849–9 July 1850**
Born 24 Sep. 1784; died 9 July 1850
Inaugural ceremony 5 March
Compromise of 1850, Omnibus bill, introduced by Henry Clay 29 Jan. 1850 See also 326.973 and 973.7113
.64 **Millard Fillmore** **9 July 1850–4 Mar. 1853**
Born 7 Feb. 1800; died 7 Mar. 1874
Clayton-Bulwer treaty 4 July 1850 See also 386
California admitted, 31st state 9 Sep. 1850 See 979.4
Fugitiv slave law 18 Sep. 1850 See 326.973
Popular soverenty, or squatter soverenty See 342.73 and 326.973
Filibustering expeditions to Cuba 1849–51 See 972.91
.65
.66 **Franklin Pierce** **4 Mar. 1853–4 Mar. 1857**
Born 23 Nov. 1804; died 8 Oct. 1869
Know-nothing party See also 329.5
Republican party See also 329.6
Com. Perry's expedition to Japan 1852–54 See also 915.2 and 341.273
Gadsden treaty with Mexico for purchase of southern Arizona and New Mexico 30 June 1854
Kansas-Nebraska bill 30 May 1854 See also 326.973, 978.1 and 978.2
Ostend manifesto 18 Oct. 1854 See also 972.91
Walker's filibuster expedition against Nicaragua 1855 See also 972.85
.67
.68 **James Buchanan** **4 Mar. 1857–4 Mar. 1861**
Born 23 Ap. 1791; died 1 June 1868
Dred Scott decision 6 Mar. 1857 See also 326.973 and 973.7113
Lecompton constitution, Kansas; proslavery 7 Nov. 1857
See also 978.1
Minnesota admitted, 32d state 11 May 1858 See 977.6
Oregon admitted, 33d state 14 Feb. 1859 See 979.5
John Brown's raid 16–17 Oct. 1859 See also 973.7116 and 326.973
Kansas admitted, 34th state 29 Jan. 1861 See 978.1
.69

973.7 War of secession 4 Mar. 1861—15 Ap. 1865

SUMMARY OF 973.7

.71 Political history
.72 Diplomatic history
.73 Special campains and battles
.74 General military history
.75 Naval history
.76 Celebrations
.77 Prisons, hospitals
.78 Personal narrativs
.79 Illustrativ material

Abraham Lincoln 4 Mar. 1861—15 Ap. 1865

Born 12 Feb. 1809; died 15 Ap. 1865
1st term 4 Mar. 1861–4 Mar. 1865; 2d term 4 Mar. 1865–15 Ap. 1865

.71 **Political history; causes, results**

West Virginia admitted, 35th state 19 June 1863 See 975.4
Nevada admitted, 36th state 31 Oct. 1864 See 979.3

.711 Causes

1 Slavery See also 326
2 Extension of slavery
Annexation of territory
Slavery in the territories
3 Compromises
Missouri compromise 1820 See also 973.54
Wilmot proviso 1846 See also 973.61
Compromise of 1850 See also 973. 63
4 Abolition movement
Murder of Elijah P. Lovejoy 7 Nov. 1837
Assault on Charles Sumner by Preston S. Brooks 22 May 1856
5 Fugitiv slaves
Underground railway
Dred Scott case See also 973.68
6 John Brown's raid See also 973.68
7 States' rights
8 Tariff See also 337

.712 Efforts to preserv peace

Crittenden compromise introduced 18 Dec. 1860
Peace conference 4–27 Feb. 1861

.713 Secession of southern states

South Carolina 20 Dec. 1860
Mississippi 9 Jan. 1861
Florida 10 Jan.
Alabama 11 Jan.
Georgia 19 Jan.
Louisiana 26 Jan.
Texas 1 Feb.
Confederate States of America formd 4 Feb.
Virginia 17 Ap.
Arkansas 6 May
North Carolina 20 May
Tennessee 8 June

For constitutional conventions see subdivisions of 342; proceedings and documents of Confederate congress and of state legislatures see subdivisions of 328

.714 Results of the civil war

Emancipation proclamation 1 Jan. 1863 See also 326.8
Freedmen's bureau See 361

For the present condition of negro, see 325.26
For negro colony in Liberia, Africa, see 325.6; history of Liberia 966.6

973.715 Relations of special classes to the civil war
Clergy and churches. Colleges, students and graduates
.716 Southern side
.717 Unionists in the south
.718 Secessionists in the north
.72 Diplomatic history: relations with other nations
Divided like 940; e. g. 973.722 Relations with England 973.727 Russia
.721 Diplomatic history of confederate states
Divided like 940; e. g. 973.7214 Relations of confederate states with France
.73 Special campains and battles
General arrangement of topics is based on *Official records of the Union and confederate armies*, pub. by the U. S. The indexes of those volumes can be used as a minute subject index for subdivisions of 973.73
.731 Campain of 1861
1 Operations in Charleston harbor, S. C. 20 Dec. 1860-14 Ap. 1861
Bombardment of Fort Sumter 12-14 April
2 Operations in other southern states (see *Official records*, v. 1)
3 Maryland, Pennsylvania, Virginia, West Virginia, 16 Ap.-31 July
Riot at Baltimore, Md. 19 April
Engagement at Big Bethel, or Bethel Church, Va. 10 June
4 Battle of Bull Run, or Manassas, Va. 21 July
5 Missouri, Arkansas, Kansas, Indian territory 10 May-19 Nov.
6 Texas, New Mexico, Arizona 11 June-1 Feb. 1862
Kentucky, Tennessee 1 July-19 Nov.
North Carolina, southeastern Virginia 1 Aug.-11 Jan. 1862
7 Maryland, northern Virginia, West Virginia 1 Aug.-17 Mar. 1862
8 Engagement at Ball's Bluff, Va. 21 Oct.
Action near Edwards Ferry, Va. 22 Oct.
9 S. Carolina, Georgia, middle and east Florida 21 Aug.-11 Ap. 1862
.732 Campain of 1862
1 West Florida, southern Alabama, southern Mississippi, Louisiana 1 Sep. 1861–12 May 1862
Capture of New Orleans, La. 18 Ap.-1 May
2 Kentucky, Tennessee, north Alabama, southwest Virginia 19 Nov. 1861-4 March 1862
Capture of Fort Henry, Tenn. 6 Feb.
Siege and capture of Fort Donelson, Tenn. 12-16 Feb.
3 Missouri, Arkansas, Kansas, Indian T. 19 Nov. 1861–10 Ap. 1862
Battle of Pea Ridge, or Elkhorn tavern, Ark. 6-8 Mar.
4 Southeastern Virginia 11 Jan.-17 Mar.
Battle of Merrimac and Monitor See 973.752
North Carolina 11 Jan.-20 Aug.
Burnside expedition
Battle of Roanoke iland, N. C. 8 Feb.
Texas, New Mexico, Arizona 1 Feb.-20 Sep.
5 Kentucky, Tennessee, north Mississippi, north Alabama, southwest Virginia 4 Mar.-10 June
Siege of Corinth, Miss. 29 Ap.-10 June
6 Battle of Pittsburg Landing, or Shiloh, Tenn. 6-7 Ap.

973.732 Campain of 1862 *continued*
7 Peninsular campain, Va. 17 Mar.-2 Sep.
Siege of Yorktown, Va. 5 Ap.-4 May
Battle of Fair Oaks, or Seven Pines, Va. 31 May-1 June
Seven-days battles 25 June-1 July
8 Northern Virginia, West Virginia, Maryland 17 Mar.-2 Sep.
Battle of Cedar Run, or Cedar (Slaughter) mountain, Va. 9 Aug.
Second battle of Bull Run or Manassas, Va. 30 Aug.
9 Missouri, Arkansas, Kansas, Indian Territory, Dep't of N. W. 10 Ap.-20 Nov.
.733 Campain of 1862 *concluded*
1 South Carolina, Georgia, middle and east Florida 12 Ap. 1862–11 June 1863
2 West Florida, southern Alabama, southern Mississippi, Louisiana 12 May 1862–14 May 1863
Texas, New Mexico, Arizona 20 Sep. 1862–14 May 1863
3 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 10 June–31 Oct.
4 West Tennessee, northern Mississippi 10 June–20 Jan. 1863
Battle of Corinth, Miss. 3–4 Oct.
5 North Carolina, southeastern Virginia 20 Aug. 1862–3 June 1863
6 Northern Virginia, West Virginia, Maryland, Pennsylvania 3 Sep.–14 Nov.
Battle of South Mountain, Md. 14 Sep.
Battle of Antietam, or Sharpsburg, Md. 16–17 Sep.
7 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 1 Nov.–20 Jan. 1863
Battle of Stone river, or Murfreesboro, Tenn. 31 Dec. 1862–3 Jan. 1863
8 Northern Virginia, West Virginia, Maryland, Pennsylvania 15 Nov.–25 Jan. 1863
9 Battle of Fredericksburg, Va. 11–15 Dec.
.734 Campain of 1863
1 Missouri, Arkansas, Kansas, Indian Territory, Dep't of Northwest 20 Nov. 1862–31 Dec. 1863
2 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 21 Jan.–10 Aug.
Middle Tennessee, or Tullahoma campain 23 June–7 July
Morgan's Ohio raid 2–26 July
3 Mississippi, west Tennessee 20 Jan.–10 Aug.
4 Siege of Vicksburg, Miss. 19 May–4 July
5 Northern Virginia, West Virginia, Maryland, Pennsylvania 26 Jan.–3 June
6 Chancellorsville, Va. campain 27 Ap.–6 May
7 West Florida, southern Alabama, southern Mississippi, Louisiana, Texas, New Mexico 14 May–31 Dec.
Siege of Port Hudson, La. 21 May–8 July
8 North Carolina, Virginia, West Virginia, Maryland, Pennsylvania Dep't of East 3 June–3 Aug.
9 Battle of Gettysburg, Pa. 1–3 July

973.735 Campain of 1863, *continued*
1 South Carolina, Georgia, middle and east Florida 12 June–31 Dec.
Operations on Morris iland, S. C. 10 July–7 Sep.
Occupation of Battery Wagner, S. C. 6–7 Sep.
Bombardment of Fort Sumter, S. C. 17 Aug.–31 Dec.
Bombardment of Charleston, S. C. 21 Aug.–31 Dec.
3 North Carolina, Virginia, West Virginia, Maryland, Pennsylvania 4 Aug.–31 Dec.
Bristoe, Va. campain 9–22 Oct.
Mine Run, Va. campain 26 Nov.–2 Dec.
4 Kentucky, southwest Virginia, Tennessee, Mississippi, north Alabama, north Georgia 11 Aug.–19 Oct.
5 Chickamauga, Ga. campain 16 Aug.–22 Sep.
Battle of Chickamauga, Ga. 19–20 Sep.
6 East Tennessee campain 16 Aug.–19 Oct.
7 Kentucky, southwest Virginia, Tennessee, Mississippi, north Alabama, north Georgia 20 Oct.–31 Dec.
8 Knoxville, Tenn. campain 4 Nov.–23 Dec.
Siege of Knoxville, Tenn. 17 Nov.–4 Dec.
9 Chattanooga-Ringgold campain 23–27 Nov.
Battle of Lookout mountain, Tenn. 24 Nov.
Battle of Missionary ridge, Tenn. 25 Nov.
.736 Campain of 1864
1 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama north Georgia 1 Jan.–30 Ap.
Meridian, Miss. expedition 3 Feb.–6 Mar.
Forrest's expedition into west Tennessee and Kentucky 16 Mar.–14 Ap.
Capture of Fort Pillow, Tenn. 12 Ap.
2 N. Carolina, Virginia, W. Va. Maryland, Pennsylvania 1 Jan.–30 Ap.
Expedition against New Berne, N. C. 28 Jan.–10 Feb.
Engagement at Morton's Ford, Va. 6–7 Feb.
Kilpatrick's expedition against Richmond, Va. 28 Feb.–4 Mar.
3 Louisiana, trans-Mississippi 1 Jan.–30 June
Red river, La. campain 10 Mar.–22 May
Camden, Ark. expedition 23 Mar.–3 May
4 South Carolina, Florida, Georgia coast 1 Jan.–13 Nov.
Charleston, S. C. harbor and vicinity
Florida expedition 5–22 Feb.
Engagement at Olustee or Ocean Pond, Fla. 20 Feb.
5 Southeastern Virginia, North Carolina 1 May–12 June
Engagement at Proctor's Creek and Drewry's Bluff or Fort Darling, Va. 12–16 May
Operations on the Bermuda Hundred, Va. front 17 May–2 June
Engagement at Petersburg, Va. 9 June
6 Battle of the Wilderness, Va. 5–7 May
7 Operations about Spottsylvania Court-House, Va. 8–21 May
8 Operations at and about Cold Harbor, Va. 31 May–12 June
9 Northern Virginia, West Virginia, Maryland, Pennsylvania 1 May–3 Aug.
Engagement at New Market, Va. 15 May
Lynchburg, Va. campain 26 May–29 June
Battle of the Monocacy, Md. 9 July
Action near Fort Stevens, D. C. 12 July

973.737 Campain of 1864, *continued*
1 Northern Georgia 1 May–8 Sep.
Atlanta, Ga. campain
Battle of Atlanta, Ga. 22 July
2 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama north Georgia 1 May–13 Nov.
Engagement at Harrisburg, near Tupelo, Miss. 14–15 July
Operations in Mobile bay, Ala. 2–23 Aug. See 973.754
Engagement at Allatoona, Ga. 5 Oct.
3 Southeastern Virginia, North Carolina 13 June–31 July
Richmond, Va. campain
Assaults on the Petersburg lines 15–18 June
Explosion of the mine and assault on the crater 30 July
4 Louisiana, trans-Mississippi 1 July–31 Dec.
Price's Missouri expedition 29 Aug.–2 Dec.
5 Southeastern Virginia, North Carolina 1 Aug.–31 Dec.
Richmond, Va. campain
Expedition to Fort Fisher, N. C. 7–27 Dec.
6 Northern Virginia, West Virginia, Maryland, Pennsylvania 4 Aug.–31 Dec.
7 Shenandoah valley campain, Va. 7 Aug.–28 Nov.
Battle of Winchester, or the Opequon, Va. 19 Sep.
Battle of Cedar creek, Va. 19 Oct.
8 South Carolina, Georgia, Florida 14 Nov.–31 Dec.
Savannah, Ga. campain, or Sherman's march to the sea 15 Nov.–21 Dec.
9 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama, north Georgia 14 Nov.–23 Jan. 1865
Battle of Franklin, Tenn. 30 Nov.
Battle of Nashville, Tenn. 15–16 Dec.
.738 Campain of 1865
1 Northern and southeastern Virginia, North Carolina, West Virginia, Maryland, Pennsylvania 1 Jan.–30 June
2 Richmond, Va. campain 1 Jan.–3 Ap.
3 Expedition to and capture of Fort Fisher, N. C. 3–17 Jan.
4 Appomattox, Va. campain 29 Mar.–9 Ap.
Battle of Five Forks, Va. 1 Ap.
Surrender of Gen. Lee 9 Ap.
5 North Carolina, South Carolina, southern Georgia, east Florida 1 Jan.–30 June
Campain of the Carolinas 1 Jan.–26 Ap.
6 Louisiana, trans-Mississippi 1 Jan.–30 June
7 Kentucky, southwestern Virginia, Tennessee, northern and central Georgia, Mississippi, Alabama, west Florida 1 Jan.–30 June
Wilson's raid from Chickasaw to Selma, Ala. and Macon, Ga. 22 Mar.–24 Ap.
8 Mobile, Ala. campain 17 Mar.–4 May
9 Pacific coast 1 Jan. 1861–30 June 1865

973.74 **General military history**

.741 Northern side

1 Regular army

2 Volunteers, quotas

3 Bounties

4 Drafts

5 Negro troops

6 Special armies or corps

Army of the Cumberland
Army of the Potomac
2d army corps
19th army corps etc.

7 Special branches or servises

Cavalry
Artillery
Engineers
Signal servis
Guerrillas
Commissariat

8 General orders

9 Regimental losses

742 Southern side

Guerrillas

.743 Foren elements

Divided like 940

.744–.749 Separate states and regimental histories

Divided like 974–979; 973.7444, Massachusetts; 973.7447, New York. Under each state arrange books by the following book numbers

A for official publications

A 1 Adjutant-general's reports

A 2 Lists of soldiers

B–D, General works on the part taken by the state in the conflict

B whole state, C county, D town

E Histories of cavalry regiments

F Hevy artillery

G Light artillery

J–L Infantry

J regiments 1–99
K regiments 100–199
L regiments 200–299
The individual regiment is markt by adding its number after the letter; E15, 15th regiment of cavalry; K49, 149th regiment of infantry. When there are more than 9 regiments 0 must be prefixt to the number for the 1st 10 regiments, J09 9th regiment of infantry
For the border states which also had regiments on the confederate side use similarly P–S

O Special brigades

P Cavalry

Q Hevy artillery

R Light artillery

S Infantry

For those states which past ordinances of secession (see list under 973.713) reverse these numbers using E–L for confederate regiments and P–S for Union regiments
Special numbers must be arranged for unnumberd and peculiarly numberd regiments and companies

973.75 **Naval history**

During the civil war the navy was mainly used as an auxiliary to the army and nearly all naval actions are also described in connection with special campains and battles 973.73 and its subdivisions

.751 Events of 1861

Hatteras inlet, N. C. 28 Aug. See also 973.7316

Port Royal, S. C. 7 Nov. See also 973.7319

Belmont, Mo. 7 Nov. See also 973.7315

Trent affair 8 Nov. See also 973.722

.752 Events of 1862

Fort Henry, Tenn. 6 Feb. See also 973.7322

Roanoke iland, N. C. 7–8 Feb. See also 973.7324

Fort Donelson, Tenn. 14 Feb. See also 973.7322

Monitor and Merrimac 8–9 Mar.

Island nr 10, Ky. 16 Mar.–8 Ap. See also 973.7325

New Orleans, La. 18 Ap.–1 May See also 973.7321

Memphis, Tenn. 6 June See also 973.7325

.753 Events of 1863

Charleston, S. C. 7 Ap. See also 973.7331

Vicksburg, Miss. 16 Ap. See also 973.7343

Grand Gulf, Miss. 29 Ap. See also 973.7343

.754 Events of 1864

Red river, La. expedition 10 Mar.–22 May See also 973.7363

Sassacus and Albemarle, Albemarle sound, N. C. 5 May

See also 973.7365

Alabama and Kearsarge, off Cherbourg, France 19 June

Mobile bay, Ala. 5–22 Aug. See also 973.7372

Fort Fisher, N. C. 24 Dec. See also 973.7375

.755 Events of 1865

Fort Fisher, N. C. 14–15 Jan. See also 973.7383

.756 History of special squadrons or ships

Atlantic squadron

Gulf squadron

.757 Confederate navy

Including the history of special squadrons or ships

Alabama

Shenandoah

Florida

.758 Blockade and blockade running

.759 Privateers

.76 **War meetings, celebrations, anniversaries, commemorations**

See note under 973.36

For patriotic societies commemorating the civil war see 369.15-.17

.761 War meetings

.762

.763 Flags; presentations of flags; Battle-flag day

.764

.765 Monuments, memorials See also 718

.766

.767 Roll of honor List of ded For national cemeteries, see 719

.768 Memorial day

973.77 **Prisons, hospitals, charities, etc.**
.771 Southern prisons, prison life
1 Andersonville
2 Libby prison
.772 Northern prisons
.773 Exchange of prisoners, paroles
.774
.775 Medical dep't, surgeons, nurses For military surgery see 617.99
.776 Hospitals, hospital sketches
.777 Charities
Soldiers homes, see 362.8
Soldiers orphan asylums, see 362.7
Freedmen's bureau, see 361
Pensions, See 351.5
1 U. S. sanitary commission
2 Sanitary fairs
.778 Religious life, chaplains, revivals
1 U. S. Christian commission See also 267.11
.78 **Personal narrativs, vindication, secret servis**
Personal narrativs when relating to some special battle or event should be clast according to their subject
.781 Personal narrativs, northern side
Including volumes of G. A. R. papers and Loyal legion
.782 Personal narrativs, southern side
.783 Army life
.784 Southern army life, southern home life
.785 Secret servis, spies
.786 Southern side
.79 **Illustrativ material**
See note under 973.39
.791 Poetry
.792 Drama
.793 Fiction
.794 Addresses
.795 Sermons
.796 Humor
.797 Pictures
Paintings, drawings, caricatures, engravings, fotografs, sculpture
.798 Music
.799 Maps
.8 **Later 19th century** 1865–1901
Period of reconstruction and civil servis reform
.81 **Andrew Johnson** 15 Ap. 1865–4 Mar. 1869
Born 29 Dec. 1808; died 31 July 1875
13th amendment abolishing slavery, adopted 18 Dec. 1865
See also 326.8 and 342.739
Fenian invasion of Canada 31 May–2 June 1866 See also 971
Nebraska admitted, 37th state 1 Mar. 1867 See 978.2
Cession of Alaska by Russia 20 June 1867
Impeachment of Pres. Johnson Mar.–May 1868 See 351.99
14th amendment guaranteeing citizenship, adopted 28 July 1868
See 342.739

973.82 **Ulysses Simpson Grant** **4 Mar. 1869–4 Mar. 1877**
Born 27 Ap. 1822; died 23 July 1885
Treaty for annexation of Santo Domingo, signd 29 Nov. 1869; rejected by senate 30 June 1870 See also 972.93
15th amendment guaranteeing suffrage, adopted 30 Mar. 1870
See 324.1 and 342.739
First provision for civil servis reform 3 Mar. 1871 See also 351.6
Geneva arbitration award 14 Sep. 1872 See 341.6; 973.722; 973 757
Northwestern or San Juan boundary decision, Emperor William 1 of Germany, arbitrator 23 Oct. 1872
Crédit mobilier investigation Dec. 1872–Feb. 1873
Coinage act 12 Feb. 1873 See 332.47
Modoc war, California Nov. 1872–June 1873
Financial panic 19–30 Sep. 1873 See 332
Virginius incident Oct.–Dec. 1873
Whisky ring 1872–75 See 336.73
Civil rights act 1 Mar. 1875
Colorado admitted, 38th state 1 Aug. 1876 See 978.8
Centennial exposition, Philadelphia 10 May–10 Nov. 1876 See 606
Electoral commission Feb. 1877

.83 **Rutherford Birchard Hayes** **4 Mar. 1877–4 Mar. 1881**
Born 4 Oct. 1822; died 17 Jan. 1893
Halifax fishery award 23 Nov. 1877
Bland silver act 28 Feb. 1878 See 332.47
Resumption of specie payment 1 Jan. 1879 See 332.5 and 336.73

.84 **James Abram Garfield** **4 Mar. 1881–19 Sep. 1881**
Born 19 Nov. 1831; died 19 Sep. 1881
Chester Alan Arthur **19 Sep. 1881–4 Mar. 1885**
Born 5 Oct. 1830; died 18 Nov. 1886
International cotton exposition 5 Oct.–31 Dec. 1881 See 606
Edmund act to suppress polygamy 22 Mar. 1882 See also 298
Pendleton civil servis reform act 11 Jan. 1883 See 351.6

.85 **Grover Cleveland** **4 Mar. 1885–4 Mar. 1889**
Born 18 Mar. 1839; died 24 June 1908
Act regulating the presidential succession 19 Jan. 1886 See 353.03
Mexican war pension act 29 Jan. 1887 See 351.5
Act creating Interstate commerce commission 4 Feb. 1887 See 385
Dependent pension bill vetoed 11 Feb. 1887 See 351.5
Centennial anniversary of Constitution, Philadelphia, Pa. 15–17 Sep. 1887
Act to establish the Labor dep't 13 June 1888 See 331
Fisheries treaty, signd 15 Feb. 1888; rejected by senate 21 Aug. 1888
See 333.9 and 341.273
Act to make Agriculture dep't an executiv dep't 9 Feb. 1889
See also 630.6 and 353.8

973.86 **Benjamin Harrison** **4 Mar. 1889–4 Mar. 1839**
Born 20 Aug. 1833; died 13 Mar. 1901
Opening of Oklahoma 2 Ap. 1889 See 976.6
North Dakota admitted, 39th state 2 Nov. 1889 See 978.4
South Dakota admitted, 40th state 2. Nov. 1889 See 978.3
Montana admitted, 41st state 8 Nov 1889 See 978.6
Washington admitted, 42d state 11 Nov. 1889 See 979.7
International American conference 2 Oct. 1889–19 Ap. 1890
See 341.1
Idaho admitted, 43d state 3 July 1890 See 979.6
Wyoming admitted, 44th state 10 July 1890 See 978.7
Sherman silver act, repealing silver act of 1878 14 July 1890
See 332.47
McKinley tariff act 1 Oct. 1890 See 337.3
Controversy with Chile Oct. 1891–July 1892 See 983
Geary Chinese exclusion act 5 May 1892 See 325.251
Bering sea arbitration treaty 23 Aug. 1892
Hawaiian annexation treaty sent to senate, 15 Feb. 1893; withdrawn, 9 Mar. 1893 See 996.9

.87 **Grover Cleveland, second term** **4 Mar. 1893–4 Mar. 1897**
World's Columbian exposition, Chicago 1 May–30 Oct. 1893
See 606
Decision of Bering sea court of arbitration 15 Aug. 1893
Voorhees silver act 1 Nov. 1893 See 332.47
Wilson tariff act 27 Aug. 1894 See 337.2
Income tax law decided unconstitutional by U. S. supreme court 8 Ap. 1895 See 336.24
U. S. commission on boundary between Venezuela and British Guiana appointed 1 Jan. 1896 See 987
Utah admitted, 45th state 4 Jan. 1896 See 979.2

.88 **William McKinley** **4 Mar. 1897–14 Sep. 1901**
Born 29 Jan. 1844; died 14 Sep. 1901
Dingley tariff act 24 July 1897
Annexation of Hawaii 7 July 1898

.89 War with Spain
War declared 21 Ap. 1898
Protocol signd 12 Aug. 1898
Treaty of peace signd at Paris, 10 Dec. 1898; ratified, 11 April 1899

.891 Political history; causes, results
Spanish misrule in Cuba
Destruction of battleship Maine 15 Feb. 1898
Acquisition of Philippines and Porto Rico

.892 Diplomatic history

.893 Special campains and battles
Siege of Santiago 22 June–17 July 1898
Battle of El Caney 1 July 1898

.894 General military history
May be subdivided like 973.74

.895 Naval history
Battle of Manila 1 May 1898
Sinking of the Merrimac 3 June 1898
Destruction of Cervera's squadron 3 July 1898

.896 War meetings, celebrations, anniversaries

.897 Prisons, hospitals, etc.

.898 Personal narrativs

.899 Illustrativ materials

973.91	**Early 20th century**	1901–
.911	**Theodore Roosevelt** Born 27 Oct. 1858; died 6 Jan. 1919	14 Sep. 1901–4 Mar. 1909
.912	**William Howard Taft** Born 15 Sep. 1857	4 Mar. 1909–4 Mar. 1913
.913	**Woodrow Wilson** Born 28 Dec. 1856	4 Mar. 1913–
	War with Germany 1917-19	

974 Northeastern or North Atlantic New England

.1 Maine

Admitted 15 Mar. 1820 as 23d state
Area 33,040 sq. mi. 16 counties Population 742,371 in 1910
Sobriquets: Pinetree state, Polar Star state Capital: Augusta

		Population in 1910	
.11	Aroostook	74 664	
.12	Somerset	36 301	
	Piscataquis	19 887	
.13	Penobscot	85 285	
.14	Washington	42 905	
	Hancock	35 575	
.15	Waldo	23 383	
	Knox	28 981	
	Lincoln	18 216	
.16	Kennebec	62 863	
.17	Franklin	19 119	
	Oxford	36 256	
.18	Androscoggin	59 822	
	Sagadahoc	18 574	
.19	Cumberland	112 014	
	Portland		*58 571*
	York	68 526	

.2 New Hampshire

Area 9341 sq. mi. 10 counties Population 430,572 in 1910
Sobriquet: Granit state Capital: Concord

		Population in 1910
.21	Coos	30 753
.22	*White mts*	
.23	Grafton	41 652
.24	Carroll	16 316
	Belknap	21 304
.25	Strafford	38 951
.26	Rockingham	52 188
.27	Merrimac	53 335
	Sullivan	19 337
.28	Hillsboro	126 072
.29	Cheshire	30 659

.3 Vermont

Area 9564 sq. mi. 14 counties Population 355,956 in 1910
Sobriquet: Green Mt state Capital: Montpelier

		Population in 1910
.31	Grand Isle	3 761
	Franklin	29 866
	Chittenden	42 447
.32	Orleans	23 337
	Essex	7 384
.33	Caledonia	26 031
	Lemoille	12 585
.34	Washington	41 702
.35	Addison	20 010
.36	Orange	18 703
	Windsor	33 681
.37	Rutland	48 139
.38	Bennington	21 378
.39	Windham	26 932

974.4 Massachusetts

Area 8266 sq. mi. 14 counties
Population 3,366,416 in 1910
Sobriquet: Bay state Capital: Boston

		Population in 1910	
.41	Berkshire	105 259	
.42	Franklin	43 600	
	Hampshire	63 327	
	Hampden	231 369	
.43	Worcester	399 657	
.44	Middlesex	669 915	
.45	Essex	436 477	
.46	Suffolk	731 388	
	Boston		*670 585*
.47	Norfolk	187 506	
.48	Plymouth	144 337	
	Bristol	318 573	
.49	Barnstable	27 542	
	Dukes	4 504	
	Nantucket	2 962	

.5 Rhode Island

Area 1248 sq. mi. 5 counties
Population 542,610 in 1910
Sobriquet: Little Rhody Capital: Providence

		Population in 1910	
.51	Providence	424 353	
.52	*Providence* (city)		*224 326*
.53	*Pawtucket* "		*51 622*
.54	Kent	36 378	
.55	Bristol	17 602	
.56	Newport	39 335	
.57	*Newport* (city)		*27 149*
.58	*Block Island*		
.59	Washington	24 942	

.6 Connecticut

Area 4965 sq. mi. 8 counties
Population 1,114,756 in 1910
Sobriquet: Wooden Nutmeg state Capital: Hartford

		Population in 1910	
.61	Litchfield	70 260	
.62	Hartford	250 182	
.63	*Hartford* (city)		*98 915*
.64	Tolland	26 459	
	Windham	48 361	
.65	New London	91 253	
.66	Middlesex	45 637	
.67	New Haven	337 282	
.68	*New Haven* (city)		*133 605*
.69	Fairfield	245 322	

974.7 **New York**

Area 49,204 sq. mi. 61 counties (exclusiv of Bronx)
Population 9,113,614 in 1910
Sobriquet: Empire state Capital: Albany

			Population in 1910
.71	*New York* (city)	4 766 883	
.72	Vicinity of New York city		
.721	**Long Island**		*2 098 460*
.722	Kings county	1 634 351	
.723	*Brooklyn*		*1 634 351*
.724	Queens county	284 041	
5	Nassau "	83 930	
.725	Suffolk "	96 138	
.726	Richmond " Staten Island	85 969	
.727	Westchester "	283 055	
5	*Bronx boro* (and county)	430 980	
.728	Rockland county	46 873	
.73	Southeast counties		
.731	Orange, *West Point*	116 001	
.732	Putnam	14 665	
.733	Dutchess	87 661	
.734	Ulster	91 769	
.735	Sullivan	33 808	
.736	Delaware	45 575	
.737	Green	30 214	
.738	*Catskill mts*		
.739	Columbia	43 658	
.74	Middle east counties		
.741	Rensselaer	122 276	
	Troy		*76 813*
.742	Albany	173 666	
.743	*Albany* (city)		*100 253*
.744	Schenectady	88 235	
.745	Schoharie	23 855	
.746	Montgomery	57 567	
.747	Fulton	44 534	
.748	Saratoga	61 917	
.749	Washington	47 778	
.75	Northern counties		
.751	Warren	32 223	
	Lake George		
.752	Hamilton	4 373	
.753	Essex	33 458	
	Adirondaks		
.754	Clinton	48 230	
	Lake Champlain		
.755	Franklin	45 717	
.756	St Lawrence	89 005	
.757	Jefferson	80 382	
.758	*Thousand Islands*		
.759	Lewis	24 849	

New York

		Population in 1910	
974.76	North central counties		
.761	Herkimer	56 356	
.762	Oneida	154 157	
.763	*Utica*		*74 419*
.764	Madison	39 289	
.765	Onondaga	200 298	
.766	*Syracuse*		*137 249*
.767	Oswego	71 664	
.768	Cayuga	67 106	
.769	Seneca	26 972	
.77	South central counties		
.771	Tompkins	33 647	
.772	Cortland	29 249	
.773	Chenango	35 575	
.774	Otsego	47 216	
.775	Broome	78 809	
.776	*Binghamton*		*48 443*
.777	Tioga	25 624	
.778	Chemung	54 662	
.779	*Elmira*		*37 176*
.78	West central counties		
.781	Schuyler	14 004	
.782	Yates	18 642	
.783	Steuben	83 362	
.784	Alleghany	41 412	
.785	Livingston	38 037	
.786	Ontario	52 286	
.787	Wayne	50 179	
.788	Monroe	283 212	
.789	*Rochester*		*218 149*
.79	Western counties		
.791	Orleans	32 000	
.792	Genesee	37 615	
.793	Wyoming	31 880	
.794	Cattaraugus	65 919	
.795	Chautauqua	105 126	
.796	Erie	528 985	
.797	*Buffalo*		*423 715*
.798	Niagara	92 036	
.799	*Niagara Falls*		*30 445*

974.8 Pennsylvania

Area 45,126 sq. mi. 68 counties
Population 7,665,111 in 1910
Sobriquet: Keystone state Capital: Harrisburg

.81	Southeast counties Philadelphia and Chester group		
		Population in 1910	
.811	Philadelphia (co. and city)	1 549 008	
.812	Montgomery	169 590	
.813	Chester	109 213	
.814	Delaware	117 906	
.815	Lancaster	167 029	
.816	Berks	183 222	
.817	Schuylkill	207 894	
.818	Dauphin	136 152	
.819	Lebanon	59 565	
.82	Eastern counties Bucks group		
.821	Bucks	76 530	
.822	Northampton	127 667	
.823	Wayne	29 236	
.824	Pike	8 033	
.825	Monroe	22 941	
.826	Carbon	52 846	
.827	Lehigh	118 832	
.83	Northeast counties Northumberland group		
.831	Northumberland	111 420	
.832	Luzerne	343 186	
.833	*Wilkesbarre*		*67 105*
.834	Susquehanna	37 746	
.835	Wyoming	15 509	
.836	Lackawanna	259 570	
.837	*Scranton*		*129 867*
.838	Columbia	48 467	
.839	Montour	14 868	
.84	Southeast central counties Cumberland group		
.841	York	136 405	
.842	Adams	34 319	
.843	Cumberland	54 479	
.844	Franklin	59 775	
.845	Perry	24 136	
.846	Mifflin	27 785	
.847	Juniata	15 013	
.848	Union	16 249	
.849	Snyder	16 800	
.85	Northeast central counties East Lycoming group		
.851	Lycoming	80 813	
.852			
.853	Center	43 424	
.854	Clinton	31 545	
.855	Potter	29 729	
.856	Tioga	42 829	
.857	Bradford	54 526	
.858			
.859	Sullivan	11 293	

Pennsylvania

974.86	Northwest central counties	West Lycoming group	
.861	Clearfield	93 768	
.862	Jefferson	63 090	
.863	McKean	47 868	
.864			
.865	Elk	35 871	
.866	Cameron	7 644	
.867	Warren	39 573	
.868	Forest	9 435	
.869	Clarion	36 638	
.87	Southwest central counties	Bedford group	
.871	Bedford	38 879	
.872	Fulton	9 703	
.873	Huntington	38 304	
.874			
.875	Blair	108 858	
.876	*Altoona*		*52 127*
.877	Cambria	166 131	
.878			
.879	Somerset	67 717	
.88	Southwest counties	Westmoreland group	
.881	Westmoreland	231 304	
.882	Washington	143 680	
.883	Greene	28 882	
.884	Fayette	167 449	
.885	Allegheny	1 018 763	
.886	*Pittsburg*		*533 905*
.887	*Allegheny City* Annext to Pittsburg in 1907		
.888	Armstrong	67 880	
.889	Indiana	66 210	
.89	Northwest counties	Allegheny group	
.891	Butler	72 689	
.892	Beaver	78 353	
.893	Lawrence	70 032	
.894			
.895	Mercer	77 699	
.896	Venango	56 359	
.897	Crawford	61 565	
.898			
.899	Erie	115 517	
.9	**New Jersey**		
	Area 8224 sq. mi. 21 counties Population 2,537,167 in 1910 Sobriquet: Jersey Blue state Capital: Trenton		
.91	East Jersey	*Population in 1910*	
.92	Northern counties		
.921	Bergen	138 002	
.922			
.923	Passaic	215 902	
.924	*Paterson*		*125 600*
.925			
.926	Hudson	537 231	
.927	*Jersey City*		*267 779*
.928	*Hoboken*		*70 324*

New Jersey

974.93	Central counties		
.931	Essex	512 866	
.932	*Newark*		*347 469*
.933	*Orange*		*29 630*
.934			
.935			
.936	Union	140 197	
.937	*Elizabeth*		*73 409*
.938	*Rahway*		*9 337*
.94	Southern counties		
.941	Middlesex	114 426	
.942	*New Brunswick*		*23 388*
.943			
.944	Somerset	38 820	
.945			
.946	Monmouth	94 734	
.947			
.948	Ocean	21 318	
.95	West Jersey		
.96	Central counties		
.961	Burlington	66 565	
.962			
.963			
.964			
.965	Mercer	125 657	
.966	*Trenton*		*96 815*
.967	*Princeton*		*5 136*
.97	Northern counties		
.971	Hunterdon	33 569	
.972	*Raritan*		*3 672*
.973			
.974	Morris	74 704	
.975			
.976	Sussex	26 781	
.977			
.978	Warren	43 187	
.98	Upper southern counties		
.981	Gloucester	37 368	
.982			
.983			
.984	Atlantic	71 894	
.985			
.986			
.987	Camden	142 029	
.988	*Camden* (city)		*94 538*
.99	Lower southern counties		
.991	Salem	26 999	
.992	*Salem City*		*6 614*
.993			
.994	Cumberland	55 153	
.995	*Bridgeton*		*14 209*
.996			
.997			
.998	Cape May	19 145	

975 Southeastern or South Atlantic

Including general works on the South

.1 Delaware

Area 1965 sq. mi.
Population 202,322 in 1910 3 counties
Sobriquets: Blue Hen state, Diamond state Capital: Dover

			Population in 1910
.11	Newcastle	123 188	
.12	*Wilmington*		*87 411*
.14	Kent	32 721	
.17	Sussex	46 413	

.2 Maryland

Area 12,327 sq. mi.
Population 1,295,346 in 1910 23 counties and Baltimore city
Sobriquet: Old Line state Capital: Annapolis

.21	Eastern Maryland		
.221	Worcester	21 841	
.223	Somerset	26 455	
.225	Wicomico	26 815	
.227	Dorchester	28 669	
.231	Caroline	19 216	
.232	Talbot	19 620	
.234	Queen Anne	16 839	
.236	Kent	16 957	
.238	Cecil	23 759	
.24	Southern Maryland		
.241	St Mary	17 030	
.244	Calvert	10 325	
.247	Charles	16 386	
.251	Prince George	36 147	
.255	Anne Arundel	39 553	
.256	*Annapolis*		*8 609*
.26	*Baltimore* (city)	558 485	
.27	North central		
.271	Baltimore	122 349	
.274	Harford	27 965	
.277	Carroll	33 934	
.281	Howard	16 106	
.284	Montgomery	32 089	
.287	Frederick	52 673	
.288	*Frederick* (city)		*10 411*
.29	Western		
.291	Washington	49 617	
.292	*Hagerstown*		*16 507*
.294	Allegany	62 411	
.295	*Cumberland*		*21 839*
.297	Garrett	20 105	

.3 District of Columbia, Washington (*city*)

Area 70 sq. mi.
Population (Washington) 331,069 in 1910

975.4 West Virginia

19 June 1863 admitted as 35th state Area 24,780 sq. mi.
Population 1,221,119 in 1910 55 counties
Sobriquet: Panhandle state Capital: Charleston

OUTLINE

.41	**Ohio valley**	
.411	Northern Panhandle	
.42	Little Kanawha valley	
.43	Kanawha valley	
.44	Southwestern border counties	
.441	Guyandotte valley	
.446	Tug valley	
.45	**Central plateau**	
.451	Monongahela valley	
.46	Central counties	
.464	Elk valley	
.468	Gauley valley	
.47	New River valley	
.48	**Alleghany crest**	Mountain counties
.481	Cheat valley	
.486	Greenbrier valley	
.49	Eastern Panhandle	Potomac valley

.41 Ohio valley

.411 Northern Panhandle

		Population 1910	
.412	Hancock	10 465	
.413	Brooke	11 068	
.414	Ohio	57 572	
.415	*Wheeling*		*41 641*
.416	Marshall	32 388	
.417			
.418	Wetzel	23 855	
.419	Tyler	16 211	

.42 Little Kanawha valley

.421	Pleasants	8 074	
.422	Wood	38 001	
.423	*Parkersburg*		*17 842*
.424	Ritchie	17 875	
.425			
.426	Wirt	9 047	
.427	Gilmer	11 379	
.428			
.429	Calhoun	11 258	

.43 Kanawha valley

.431	Jackson	20 956	
.432			
.433	Mason	23 019	
.434			
.435	Putnam	18 587	
.436	Roane	21 543	
.437	Kanawha	81 457	
.438	*Charleston*		*22 996*
.439	Boone	10 331	

West Virginia: Ohio valley

975.44	Southwestern border counties		
.441	Guyandotte valley	*Population 1910*	
.442	Cabell	46 685	
.4421	*Huntington*		*31 161*
.443	Lincoln	20 491	
.444	Logan	14 476	
.445	Wyoming	10 392	
.446	Tug valley		
.447	Wayne	24 081	
448	Mingo	19 431	
.449	McDowell	47 856	
.45	**Central plateau**		
.451	Monongahela valley		
.452	Monongalia	24 334	
.453	*Morgantown*		*9 150*
.454	Marion	42 794	
.455	Taylor	16 554	
.456	Doddridge	12 672	
.457	Harrison	48 381	
.458	*Clarksburg*		*9 201*
.459	Barbour	15 858	
.46	Central counties		
.461	Lewis	18 281	
.462	Upshur	16 629	
.464	Elk valley		
.465	Webster	9 680	
.466	Braxton	23 023	
.467	Clay	10 233	
.468	Gauley valley		
.469	Nicholas	17 699	
.47	New River valley		
.471	Fayette	51 903	
.473	Raleigh	25 633	
.474	Mercer	38 371	
.476	Summers	18 420	
.478	Monroe	13 055	
.48	**Alleghany crest**	**Mountain counties**	
.481	Cheat valley	*Population 1910*	
.482	Preston	26 341	
.483	Tucker	18 675	
.484			
.485	Randolph	26 028	
.486	Greenbrier valley		
.487	Pocahontas	14 740	
.488	Greenbrier	24 833	
.489	*White Sulphur Springs*		*338*

West Virginia

975.49	Eastern Panhandle	Potomac valley
.491	Pendleton	9 349
.492	Grant	7 838
.493	Hardy	9 163
.494	Mineral	16 674
.495	Hampshire	11 694
.496	Morgan	7 848
.497	Berkeley	21 999
.498		
.499	Jefferson	15 889

.5 Virginia

17 Ap. 1861 seceded; 26 Jan. 1870 readmitted Area 40,262 sq. mi.
Population 2,061,612 in 1910 100 counties
Sobriquets: Old Dominion, Mother of Presidents Capital: Richmond

.6 North Carolina

20 May 1861 seceded; 25 June 1868 readmitted Area 48,740 sq. mi.
Population 2,206,287 in 1910 98 counties
Sobriquet: Old North state Capital: Raleigh

.7 South Carolina

20 Dec. 1860 seceded; 25 June 1868 readmitted Area 30,495 sq. mi.
Population 1,515,400 in 1910 43 counties
Sobriquet: Palmetto state Capital: Columbia

.8 Georgia

19 Jan. 1861 seceded; 25 June 1868 readmitted Area 58,725 sq. mi.
Population 2,609,121 in 1910 146 counties
Sobriquet: Cracker state Capital: Atlanta

.9 Florida

1512 discoverd by Ponce de Leon; 1565 settled by Spaniards; 22 Feb. 1819 bought of Spain
30 Mar. 1822 organized as territory
3 Mar. 1845 admitted as 27th state
10 Jan. 1861 seceded; 25 June 1868 readmitted Area 54,861 sq. mi.
Population 752,619 in 1910 47 counties
Sobriquets: Everglade, Gulf state Capital: Tallahassee

976 South Central or Gulf

.1 Alabama

1702 settled by French
14 Dec. 1819 admitted as 22d state
11 Jan. 1861 seceded; 25 June 1868 readmitted Area 51,279 sq. mi.
Population 2,138,093 in 1910 67 counties
Sobriquet: Land of Flowers Capital: Montgomery

.2 Mississippi

7 Ap. 1798 organized as territory; 10 Dec. 1817 admitted as 20th state
9 Jan. 1861 seceded; 17 Feb. 1870 readmitted Area 46,362 sq. mi.
Population 1,797,114 in 1910 79 counties
Sobriquet: Bayou state Capital: Jackson

.3 Louisiana

1699 settled by French 30 Ap. 1803 bought of France 1 Oct. 1804 organized as Territory of Orleans
8 Ap. 1812 Louisiana admitted as 18th state
26 Jan. 1861 seceded; 25 June 1868 readmitted Area 45,409 sq. mi.
Population 1,656,388 in 1910 60 parishes
Sobriquets: Pelican state, Creole state Capital: Baton Rouge

976 South Central or Gulf

.4 Texas

20 Dec. 1835 independence from Mexico declared; 2 Mar. 1836 republic formd
29 Dec. 1845 annext as 28th state
1 Feb. 1861 seceded; 30 Mar. 1870 readmitted Area 262,398 sq. mi.
Population 3,896,542 in 1910 245 counties
Sobriquet: Lone Star state Capital: Austin

.5

.6 Indian Territory Oklahoma

30 June 1834 assignd to Indians (part of Louisiana purchase)
Area 30,790 sq. mi.
Population 800,000 in 1906
Oklahoma organized as separate territory 2 May 1890
16 Nov. 1907 admitted as 46th state Area 69,414 sq. mi.
Sobriquet: Sooner state Capital: Guthrie

.7 Arkansas

4 June 1812 included in Missouri territory; 2 Mar. 1819 organized as Arkansas territory
15 June 1836 admitted as 25th state
6 May 1861 seceded; 22 June 1868 readmitted Area 52,525 sq. mi.
Population 1,574,449 in 1910 75 counties
Sobriquet: Bear state Capital: Little Rock

.8 Tennessee

1769 settled from Virginia; 14 Dec. 1784 organized by settlers as state of Franklin (or Frankland)
1 June 1796 admitted as 16th state
8 June 1861 seceded; 24 July 1866 readmitted Area 41,687 sq. mi.
Population 2,184,789 in 1910 96 counties
Sobriquet: Big Bend state Capital: Nashville

.9 Kentucky

1775 settled by Daniel Boone; 29 May 1790 territory organized
1 June 1792 admitted as 15th state Area 40,181 sq. mi.
Population 2,289,905 in 1910 119 counties
Sobriquet: Blue Grass state Capital: Frankfort

977 North Central or Lake

.1 Ohio

19 Feb 1803 admitted as 17th state Area 40,760 sq. mi.
Population 4,767,121 in 1910 88 counties
Sobriquet: Buckeye state Capital: Columbus

.11 Northwest counties

		Population 1910	
.111	Williams	25 198	
5	Fulton	23 914	
.112	Lucas	192 728	
.113	*Toledo*		*168 497*
.114	Defiance	24 498	
.115	Henry	25 119	
.116	Wood	46 330	
.117	Paulding	22 730	
.118	Putnam	29 972	
.119	Hancock	37 860	
1	*Findlay*		*14 858*

Ohio

977.12	Central north counties	*Population 1910*	
.121	Ottawa	22 360	
4	Sandusky	35 171	
.122	Erie	38 327	
1	*Sandusky* (city)		*19 989*
.123	Lorain	76 037	
1	*Lorain* (city)		*28 883*
.124	Seneca	42 421	
1	*Tiffin*		*11 894*
.125	Huron	34 206	
.126	Wyandot	20 760	
.127	Crawford	34 036	
.128	Richland	47 667	
1	*Mansfield*		*20 768*
.129	Ashland	22 975	
.13	Northeast counties		
.131	Cuyahoga	637 425	
.132	*Cleveland*		*560 663*
.133	Lake	22 927	
6	Geauga	14 670	
.134	Ashtabula	59 547	
1	*Ashtabula* (city)		*18 266*
.135	Medina	23 598	
.136	Summit	108 253	
1	*Akron*		*69 067*
.137	Portage	30 307	
.138	Trumbull	52 766	
.139	Mahoning	116 151	
1	*Youngstown*		*79 066*
.14	Central west counties		
.141	Van Wert	29 119	
5	Mercer	27 536	
.142	Allen	56 580	
1	*Lima*		*30 508*
.143	Auglaize	31 246	
.144	Hardin	30 407	
.145	Shelby	24 663	
.146	Logan	30 084	
5	Champaign	26 351	
.147	Darke	42 933	
.148	Miami	45 047	
1	*Piqua*		*13 388*
.149	Clark	66 435	
1	*Springfield*		*46 921*

Ohio

977.15	Central counties	*Population 1910*	
.151	Marion	33 971	
1	*Marion* (city)		*18 232*
6	Morrow	16 815	
.152	Knox	30 181	
.153	Union	21 871	
5	Delaware	27 182	
.154	Licking	55 590	
1	*Newark*		*25 404*
.155	Madison	19 902	
.156	Franklin	221 567	
.157	*Columbus*		*181 511*
.158	Fairfield	39 201	
.159	Perry	35 396	
.16	Central east counties		
.161	Wayne	38 058	
.162	Stark	122 987	
1	*Canton*		*50 217*
3	*Massillon*		*13 879*
.163	Columbiana	76 619	
1	*East Liverpool*		*20 387*
.164	Holmes	17 909	
.165	Coshocton	30 121	
.166	Tuscarawas	57 035	
.167	Carroll	15 761	
.168	Harrison	19 076	
.169	Jefferson	65 423	
1	*Steubenville*		*22 391*
.17	Southwest counties		
.171	Preble	23 834	
.172	Montgomery	163 763	
.173	*Dayton*		*116 577*
.174	Greene	29 733	
.175	Butler	70 271	
1	*Hamilton* (city)		*35 279*
.176	Warren	24 497	
5	Clinton	23 680	
.177	Hamilton	460 732	
.178	*Cincinnati*		*363 591*
.179	Clermont	29 551	
6	Brown	24 832	

Ohio

977.18 Central south counties

		Population 1910	
.181	Fayette	21 744	
5	Pickaway	26 158	
.182	Ross	40 069	
1	*Chillicothe*		*14 508*
.183	Hocking	23 650	
7	Vinton	13 096	
.184	Highland	28 711	
7	Pike	15 723	
.185	Jackson	30 791	
.186	Adams	24 755	
.187	Scioto	48 463	
1	*Portsmouth*		*23 481*
.188	Lawrence	39 488	
1	*Ironton*		*13 147*
.189	Gallia	25 745	
.19	Southeast counties		
.191	Muskingum	57 488	
1	*Zanesville*		*28 026*
.192	Guernsey	42 716	
.193	Belmont	76 856	
.194	Morgan	16 097	
.195	Noble	18 601	
.196	Monroe	24 244	
.197	Athens	47 798	
.198	Washington	45 422	
1	*Marietta*		*12 923*
.199	Meigs	25 594	

977.2 **Indiana**

1809 Indiana territory with present boundaries establisht
11 Dec. 1816, Indiana admitted as 19th state
Population 2,700,876 in 1910 92 counties Area 36,350 sq. mi.
Sobriquet: Hoosier state Capital: Indianapolis

.21	Southeast counties	*Population in 1910*	
.211	Dearborn	21 396	
.212	Ohio	4 329	
	Switzerland	9 914	
.213	Jefferson	20 483	
.214	Ripley	19 452	
.215	Franklin	15 335	
.216	Decatur	18 793	
.217	Jennings	14 203	
.218	Scott	8 323	
	Clark	30 260	
	Jeffersonville		*10 412*
.219	Floyd	30 293	
	New Albany		*20 629*
.22	Central south counties		
.221	Harrison	20 232	
.222	Washington	17 445	
.223	Jackson	24 727	
.224	Bartholomew	24 813	
.225	Brown	7 975	
	Monroe	23 426	
.226	Lawrence	30 625	
.227	Orange	17 192	
.228	Crawford	12 057	
.229	Perry	18 078	
.23	Southwest counties		
.231	Spencer	20 676	
.232	Warrick	21 911	
.233	Vanderburg	77 438	
	Evansville		*69 647*
.234	Posey	21 670	
.235	Gibson	30 137	
.236	Pike	19 684	
.237	Dubois	19 843	
.238	Martin	12 950	
	Daviess	27 747	
.239	Knox	39 183	
.24	West central counties		
.241	Sullivan	32 439	
.242	Greene	36 873	
.243	Owen	14 053	
.244	Clay	32 535	
.245	Vigo	87 930	
	Terre Haute		*58 157*
.246	Vermilion	18 865	
	Parke	22 214	
.247	Fountain	20 439	
.248	Montgomery	29 296	
.249	Putnam	20 520	

Indiana

977.25	Central counties	*Population 1910*	
.251	Morgan	21 182	
	Johnson	20 394	
.252	Marion	263 661	
	Indianapolis		*233 650*
.253	Hendricks	20 840	
.254	Boone	24 673	
.255	Clinton	26 674	
	Tipton	17 459	
.256	Hamilton	27 026	
.257	Madison	65 224	
	Anderson		*22 476*
.258	Hancock	19 030	
.259	Shelby	26 802	
.26	East central counties		
.261	Rush	19 349	
.262	Fayette	14 415	
	Union	6 260	
.263	Wayne	43 757	
	Richmond		*22 324*
.264	Henry	29 758	
.265	Delaware	51 414	
	Muncie		*24 005*
.266	Randolph	29 013	
.267	Jay	24 961	
.268	Blackford	15 820	
.269	Grant	51 426	
.27	Northeast counties		
.271	Huntington	28 982	
.272	Wells	22 418	
.273	Adams	21 840	
.274	Allen	93 386	
	Fort Wayne		*63 933*
.275	Whitley	16 892	
.276	Noble	24 009	
.277	Dekalb	25 054	
.278	Steuben	14 274	
.279	Lagrange	15 148	
.28	Central north counties		
.281	Elkhart	49 008	
.282	Kosciusko	27 936	
.283	Wabash	26 926	
.284	Miami	29 350	
.285	Howard	33 177	
.286	Cass	36 368	
	Logansport		*19 050*
.287	Fulton	16 879	
.288	Marshall	24 175	
.289	St Joseph	84 312	
	South Bend		*53 684*

Indiana

977.29	Northwest counties	*Population 1910*	
.291	Laporte	45 797	
	Michigan City		*19 027*
.292	Starke	10 567	
	Pulaski	13 312	
.293	White	17 602	
294	Carroll	17 970	
295	Tippecanoe	40 063	
	Lafayette		*20 081*
.296	Warren	10 899	
.297	Benton	12 688	
	Newton	10 504	
	Jasper	13 044	
.298	Porter	20 540	
.299	Lake	82 864	

.3 Illinois

1809 Illinois territory formd 3 Dec. 1818 Illinois admitted
Area 56,043 sq. mi. Population 5,638,591 in 1910 102 counties
Sobriquet: Prairie state Capital: Springfield

		Population 1910	
.31	Cook	2 405 233	
	Chicago		*2 135 283*
.32	Northeast counties		
.321	Lake	55 058	
.322	McHenry	32 509	
.323	Kane	91 862	
	Aurora		*29 807*
	Elgin		*25 976*
.324	Dupage	33 432	
.325	Will	84 371	
	Joliet		*34 670*
.326	Kendall	10 777	
	Grundy	24 161	
.327	Lasalle	90 132	
	Streator		*14 253*
.328	Dekalb	33 457	
.329	Boone	15 481	
.33	Northwest counties		
.331	Winnebago	63 153	
	Rockford		*45 401*
.332	Ogle	27 864	
.333	Stephenson	36 821	
	Freeport		*17 567*
.334	Jo Daviess	22 657	
	Carroll	18 035	
.335	Whiteside	34 507	
.336	Lee	27 750	
.337	Bureau	43 975	
	Putnam	7 561	
.338	Henry	41 736	
.339	Rock Island	70 404	
	Rock Island (city)		*24 335*
	Moline		*24 199*
	Mercer	19 723	

Illinois

977.34	West central counties	*Population 1910*	
.341	Henderson	9 724	
	Warren	23 313	
.342	McDonough	26 887	
.343	Hancock	30 638	
.344	Adams	64 588	
	Quincy		*36 587*
.345	Pike	28 622	
	Scott	10 067	
.346	Morgan	34 420	
	Jacksonville		*15 326*
	Cass	17 372	
.347	Brown	10 397	
	Schuyler	14 852	
.348	Fulton	49 549	
.349	Knox	46 159	
.35	Central counties		
.351	Stark	10 098	
	Marshall	15 679	
.352	Peoria	100 255	
	Peoria (city)		*66 950*
.353	Woodford	20 506	
.354	Tazewell	34 027	
.355	Mason	17 377	
	Menard	12 796	
.356	Sangamon	91 024	
	Springfield		*51 678*
.357	Logan	30 216	
.358	Macon	54 186	
	Decatur		*31 140*
	Dewitt	18 906	
.359	McLean	68 008	
	Bloomington		*25 768*
.36	East central counties		
.361	Livingston	40 465	
.362	Ford	17 096	
.363	Kankakee	40 752	
.364	Iroquois	35 543	
.365	Vermilion	77 996	
	Danville		*27 871*
.366	Champaign	51 829	
.367	Piatt	16 376	
	Moultrie	14 630	
.368	Douglas	19 591	
.369	Edgar	27 336	

Illinois

977.37	Southeast counties	*Population 1910*	
.371	Clark	23 517	
.372	Coles	34 517	
.373	Cumberland	14 281	
.374	Jasper	18 157	
.375	Crawford	26 281	
.376	Lawrence	22 661	
.377	Richland	15 970	
.378	Wabash	14 913	
.379	1 Edwards	10 049	
	2 Wayne	25 697	
	3 Jefferson	29 111	
	4 Marion	35 094	
	5 Clay	18 661	
	6 Effingham	20 055	
	7 Fayette	28 075	
	8 Shelby	31 693	
.38	Southwest counties		
.381	Christian	34 594	
.382	Montgomery	35 311	
.383	Macoupin	50 685	
.384	Greene	22 363	
.385	Calhoun	8 610	
	Jersey	13 954	
.386	Madison	89 847	
	Alton		*17 528*
.387	Bond	17 075	
	Clinton	22 832	
.388	Washington	18 759	
.389	St Clair	119 870	
	Belleville		*21 122*
	East St Louis		*58 547*
.39	Southern counties		
.391	Monroe	13 508	
.392	Randolph	29 120	
.393	Perry	22 088	
.394	Franklin	25 943	
.395	Hamilton	18 227	
.396	White	23 052	
.397	Gallatin	14 628	
.398	Hardin	7 015	
.399	1 Pope	11 215	
	2 Saline	30 204	
	3 Williamson	45 098	
	4 Jackson	35 143	
	5 Union	21 856	
	6 Johnson	14 331	
	7 Massac	14 200	
	8 Pulaski	15 650	
	9 Alexander	22 741	
	Cairo		*14 540*

977.4 Michigan

1805 Organized as separate territory
1837 Admitted
Area 78,915 sq. mi.
Population 2,810,173 in 1910 83 counties
Sobriquets: Wolverine, Lake state Capital: Lansing

Lower peninsula

.41	Southwest counties	*Population 1910*	
.411	Berrien	53 622	
.412	Cass	20 624	
.413	Van Buren	33 185	
.414	Allegan	39 819	
.415	Ottawa	45 301	
.416	Barry	22 633	
.417	Kalamazoo	60 427	
.418	*Kalamazoo* (city)		*39 437*
.419	St Joseph	25 499	
.42	Central south counties		
.421	Branch	25 605	
.422	Calhoun	56 638	
	Battle Creek		*25 267*
423	Eaton	30 490	
424	Clinton	23 129	
.425	Shiawassee	33 246	
.426	Ingham	53 310	
.427	*Lansing*		*31 229*
.428	Jackson	53 426	
	Jackson (city)		*31 433*
.429	Hillsdale	29 673	
.43	Southeast counties		
.431	Lenawee	47 907	
.432	Monroe	32 917	
.433	Wayne	531 591	
.434	*Detroit*		*465 766*
.435	Washtenaw	44 714	
.436	Livingston	17 736	
.437	Genesee	64 555	
.438	Oakland	49 576	
.439	Macomb	32 606	
.44	Southeast central counties		
.441	St Clair	52 341	
	Port Huron		*18 863*
.442	Lapeer	26 033	
.443	Sanilac	33 930	
.444	Huron	34 758	
.445	Tuscola	34 913	
.446	Saginaw	89 290	
	Saginaw (city)		*50 510*
.447	Bay	68 238	
	Bay City		*45 166*
	West Bay City		
	Annexed to Bay City in April 1905		
.448	Midland	14 005	
.449	Gratiot	28 820	

Michigan

977.45 Southwest central counties

		Population 1910	
.451	Isabella	23 029	
.452	Mecosta	19 466	
.453	Montcalm	32 069	
.454	Ionia	33 550	
.455	Kent	159 145	
.456	*Grand Rapids*		*112 571*
.457	Muskegon	40 577	
	Muskegon (city)		*24 062*
.458	Newaygo	19 220	
.459	Oceana	18 379	
.46	Northwest central counties		
.461	Mason	21 832	
.462	Manistee	26 688	
	Manistee (city)		*12 381*
.463	Benzie	10 638	
	Leelanau	10 608	
.464	Grand Traverse	23 784	
.465	Kalkaska	8 097	
.466	Missaukee	10 606	
.467	Wexford	20 769	
.468	Lake	4 939	
.469	Osceola	17 889	
.47	Northeast central counties		
.471	Clare	9 240	
.472	Gladwin	8 413	
.473	Arenac	9 640	
.474	Iosco	9 753	
.475	Ogemaw	8 907	
.476	Roscommon	2 274	
.477	Crawford	3 934	
.478	Oscoda	2 027	
.479	Alcona	5 703	
.48	Northern counties		
.481	Alpena	19 965	
.482	Presque Isle	11 249	
.483	Montmorency	3 755	
.484	Otsego	6 552	
.485	Antrim	15 692	
.486	Charlevoix	19 157	
.487	Cheboygan	17 872	
.488	Emmet	18 561	
489	Manitou		

Annext to Charlevoix and Leelanau in 1896

Michigan

977.49	**Upper peninsula**	*Population 1910*	
.491	Chippewa	24 472	
.492	Mackinac	9 249	
	Luce	4 004	
.493	Alger	7 675	
	Schoolcraft	8 681	
.494	Delta	30 108	
.495	Menominee	25 648	
	Menominee (city)		*10 507*
	Dickinson	20 524	
.496	Marquette	46 739	
	Ishpeming		*12 448*
.497	Baraga	6 127	
	Iron	15 164	
.498	Gogebic	23 333	
	Ontonagon	8 650	
.499	Houghton	88 098	
	Keweenaw	7 156	
	Isle Royale		

Annext to Keweenaw in 1897

.5 Wisconsin

1836 organized as territory
29 May 1848, admitted as 30th state Area 56,040 sq. mi.
Population 2,333,860 in 1910 71 counties
Sobriquet: Badger state Capital: Madison

.51	Northwest counties	*Population 1910*	
.511	Douglas	47 422	
.512	*Superior*		*40 384*
.513	Bayfield	15 987	
.514	Burnett	9 026	
.515	Washburn	8 196	
.516	Sawyer	6 227	
.517	Polk	21 367	
.518	Barron	29 114	
.519	Rusk (formerly Gates)	11 160	

Name changed from Gates to Rusk in 1905. Gates organized from Chippewa in 1901

.52	Central north counties		
.521	Ashland	21 965	
	Ashland (city)		*11 594*
.522	Iron	8 306	
.523	Vilas	6 019	
.524	Price	13 795	
.525	Oneida	11 433	
.526	Taylor	13 641	
.527	Lincoln	19 064	
.528	Clark	30 074	
.529	Marathon	55 054	
	Wausau		*16 560*

Wisconsin

977.53	Northeast counties	*Population 1910*	
.531	Forest	6 782	
.532	Florence	3 381	
.533	Marinette	33 812	
534	*Marinette* (city)		*14 610*
.535	Langlade	17 062	
.536	Shawano	31 884	
.537	Oconto	25 657	
.538	Waupaca	32 782	
.539	Outagamie	49 102	
	Appleton		*16 773*
.54	Central west counties		
.541	St Croix	25 910	
.542	Pierce	22 079	
.543	Dunn	25 260	
.544	Chippewa	32 103	
.545	Eau Claire	32 721	
.546	*Eau Claire* (city)		*18 310*
.547	Pepin	7 577	
.548	Buffalo	16 006	
.549	Trempealeau	22 928	
.55	Central counties		
.551	Jackson	17 075	
.552	Wood	30 583	
.553	Portage	30 945	
.554	Monroe	28 881	
.555	Juneau	19 569	
.556	Adams	8 604	
.557	Waushara	18 886	
.558	Marquette	10 741	
.559	Green Lake	15 491	
.56	Central east counties		
.561	Brown	54 098	
	Green Bay (city)		*25 236*
.562	Kewaunee	16 784	
.563	Door	18 711	
.564	Winnebago	62 116	
.565	*Oshkosh*		*33 062*
.566	Calumet	16 701	
.567	Manitowoc	44 978	
	Manitowoc (city)		*13 027*
.568	Fond du Lac	51 610	
	Fond du Lac (city)		*18 797*
.569	Sheboygan	54 888	
	Sheboygan (city)		*26 398*

Wisconsin

977.57	Southwest counties	*Population 1910*	
.571	La Crosse	43 996	
.572	*La Crosse* (city)		*30 417*
.573	Vernon	28 116	
.574	Crawford	16 288	
.575	Richland	18 809	
.576	Sauk	32 869	
.577	Grant	39 007	
.578	Iowa	22 497	
.579	La Fayette	20 075	
.58	Central south counties		
.581	Columbia	31 120	
.582	Dodge	47 436	
.583	Dane	77 435	
.584	*Madison*		*25 531*
.585	Jefferson	34 306	
.586	Green	21 641	
.587	Rock	55 538	
	Janesville		*13 894*
.588	*Beloit*		*15 125*
.589	Walworth	29 614	
.59	Southeast counties		
.591	Washington	23 784	
.592	Ozaukee	17 123	
.593	Waukesha	37 100	
.594	Milwaukee	433 187	
.595	*Milwaukee* (city)		*373 857*
.596	Racine	57 424	
.597	*Racine* (city)		*38 002*
.598	Kenosha	32 929	
.599	*Kenosha* (city)		*21 371*

.6 Minnesota

3 Mar. 1849, organized as territory from Northwest territory and Louisiana purchase
11 May 1858, east part admitted as 32d state; west part merged in Dakota territory 1861
Population 2,075,708 in 1910 Area 80,858 sq. mi. 86 counties
Sobriquet: Gofer state Capital: St Paul

.7 Iowa

12 June 1838, organized as a territory
28 Dec. 1846, admitted as 29th state Area 56,025 sq. mi.
Population 2,224,771 in 1910 99 counties
Sobriquet: Hawkeye state Capital: Des Moines

Iowa

977.71	Northwest counties	*Population 1910*	
.711	Lyon	14 624	
6	Osceola	8 956	
.712	Dickinson	8 137	
5	Emmet	9 816	
.713	Sioux	25 248	
.714	O'Brien	17 262	
.715	Clay	12 766	
5	Palo Alto	13 845	
.716	Plymouth	23 129	
.717	Cherokee	16 741	
.718	Buena Vista	15 981	
.719	Pocahontas	14 808	
.72	Central north counties		
.721	Kossuth	21 971	
.722	Winnebago	11 914	
.723	Worth	9 950	
4	Mitchell	13 435	
.724	Hancock	12 731	
.725	Cerro Gordo	25 011	
.726	Floyd	17 119	
.727	Humboldt	12 182	
4	Wright	17 951	
.728	Franklin	14 780	
.729	Butler	17 119	
.73	Northeast counties		
.731	Howard	12 920	
5	Chickasaw	15 375	
.732	Winneshiek	21 729	
.733	Allamakee	17 328	
.734	Bremer	15 843	
.735	Fayette	27 919	
.736	Clayton	25 576	
.737	Blackhawk	44 865	
1	*Waterloo*		*26 693*
.738	Buchanan	19 748	
5	Delaware	17 888	
.739	Dubuque	57 450	
1	*Dubuque* (city)		*38 494*
.74	Central west counties		
.741	Woodbury	67 616	
1	*Sioux City*		*47 828*
.742	Ida	11 296	
4	Sac	16 555	
.743	Calhoun	17 090	
.744	Monona	16 633	
.745	Crawford	20 041	
.746	Carroll	20 117	
6	Greene	16 023	
.747	Harrison	23 162	
.748	Shelby	16 552	
6	Audubon	12 671	
.749	Guthrie	17 374	

Iowa

977.75	Central counties	*Population 1910*	
.751	Webster	34 629	
1	*Fort Dodge*		*13 374*
.752	Hamilton	19 242	
.753	Hardin	20 921	
7	Grundy	13 574	
.754	Boone	27 626	
6	Story	24 083	
755	Marshall	30 279	
1	*Marshalltown*		*13 374*
.756	Tama	22 156	
.757	Dallas	23 628	
.758	Polk	110 438	
1	*Des Moines*		*86 368*
.759	Jasper	27 034	
6	Poweshiek	19 589	
.76	Central east counties		
.761	Benton	23 156	
.762	Linn	60 720	
1	*Cedar Rapids*		*32 811*
.763	Jones	19 050	
.764	Jackson	21 258	
.765	Iowa	18 409	
5	Johnson	25 914	
.766	Cedar	17 765	
.767	Clinton	45 394	
1	*Clinton* (city)		*25 577*
.768	Muscatine	29 505	
1	*Muscatine* (city)		*16 178*
.769	Scott	60 000	
1	*Davenport*		*43 028*
.77	Southwest counties		
.771	Pottawattamie	55 832	
1	*Council Bluffs*		*29 292*
.772	Cass	19 047	
.773	Adair	14 420	
.774	Mills	15 811	
.775	Montgomery	16 604	
.776	Adams	10 998	
.777	Fremont	15 623	
.778	Page	24 002	
.779	Taylor	16 312	
.78	Central south counties		
.781	Madison	15 621	
.782	Warren	18 194	
.783	Marion	22 995	
.784	Mahaska	29 860	
.785	Union	16 616	
6	Clarke	10 736	
.786	Lucas	13 462	
5	Monroe	25 429	
787	Ringgold	12 904	
5	Decatur	16 347	
.788	Wayne	16 189	
789	Appanoose	28 701	

Iowa

977.79	Southeast counties	*Population 1910*	
.791	Keokuk	21 160	
.792	Washington	19 925	
6	Louisa	12 855	
.793	Wapello	37 743	
1	*Ottumwa*		*22 012*
.794	Jefferson	15 951	
.795	Henry	18 640	
.796	Des Moines	36 145	
1	*Burlington*		*24 324*
.797	Davis	13 315	
.798	Van Buren	15 020	
.799	Lee	36 702	
1	*Keokuk* (city		*14 008*

.8 Missouri

7 Dec. 1812, organized as a territory 10 Aug. 1821, admitted as 24th state
Population 3,293,335 in 1910 114 counties and St Louis
Sobriquets: Bullion state, Iron state Capital: Jefferson Area 69,415 sq. mi.

.81	Northwest counties	*Population in 1910*	
.811	Atchison	13 604	
5	Holt	14 539	
.812	Nodaway	28 833	
6	Andrew	15 282	
.813	Buchanan	93 020	
1	*St Joseph*		*77 403*
5	Platte	14 429	
.814	Worth	8 007	
5	Gentry	16 820	
.815	Dekalb	12 531	
5	Clinton	15 297	
.816	Clay	20 302	
.817	Harrison	20 466	
.818	Daviess	17 605	
5	Caldwell	14 605	
.819	Ray	21 451	
.82	Central north counties		
.821	Mercer	12 335	
5	Grundy	16 744	
.822	Livingston	19 453	
5	Carroll	23 098	
.823	Putnam	14 308	
5	Sullivan	18 598	
.824	Linn	25 253	
.825	Chariton	23 503	
.826	Schuyler	9 062	
4	Adair	22 700	
.827	Macon	30 868	
.828	Randolph	26 182	
1	*Moberly*		*10 923*
5	Howard	15 653	
.829	Boone	30 533	

Missouri

977 83	Northeast counties	*Population 1910*	
.831	Scotland	11 869	
5	Knox	12 403	
.832	Shelby	14 864	
5	Monroe	18 304	
.833	Audrain	21 687	
5	Callaway	24 400	
.834	Clark	12 811	
5	Lewis	15 514	
.835	Marion	30 572	
1	*Hannibal*		*18 341*
5	Ralls	12 913	
.836	Pike	22 556	
.837	Lincoln	17 033	
.838	Montgomery	15 604	
6	Warren	9 123	
.839	St Charles	24 695	
.84	Central west counties		
.841	Jackson	283 522	
1	*Kansas City*		*248 381*
.842	Cass	22 973	
.843	Bates	25 869	
.844	Vernon	28 827	
.845	Lafayette	30 154	
5	Johnson	26 297	
.846	Henry	27 242	
6	St Clair	16 412	
.847	Saline	29 448	
.848	Pettis	33 913	
1	*Sedalia*		*17 822*
.849	Benton	14 881	
6	Hickory	8 741	
.85	Central counties		
.851	Cooper	20 311	
.852	Moniteau	14 375	
.853	Morgan	12 863	
.854	Camden	11 582	
.855	Cole	21 957	
1	*Jefferson City*		*11 850*
.856	Miller	16 717	
.857	Pulaski	11 438	
.858	Osage	14 283	
.859	Maries	10 088	
4	Phelps	15 796	
.86	Central east counties		
.861	Gasconade	12 847	
.862	Crawford	13 576	
.863	Franklin	29 830	
.864	Washington	13 378	
.865	St Louis	82 417	
.866	*St Louis* (city)	687 029	
.867	Jefferson	27 878	
.868	St François	35 738	
.869	Ste Genevieve	10 607	
4	Perry	14 898	

Missouri

977.87	Southwest counties		
.871	Barton	16 747	
.872	Jasper	89 673	
1	*Joplin*		*32 073*
2	*Webb City*		*11 817*
.873	Newton	27 136	
6	McDonald	13 539	
.874	Cedar	16 080	
5	Dade	15 613	
.875	Lawrence	26 583	
.876	Barry	23 869	
.877	Polk	21 561	
.878	Greene	63 831	
1	*Springfield*		*35 201*
.879	Christian	15 832	
4	Stone	11 559	
7	Taney	9 134	
.88	Central south counties		
.881	Dallas	13 181	
5	Laclede	17 363	
.882	Webster	17 377	
5	Wright	18 315	
.883	Douglas	16 664	
5	Ozark	11 926	
.884	Texas	21 458	
.885	Howell	21 065	
.886	Dent	13 245	
.887	Shannon	11 443	
5	Oregon	14 681	
.888	Iron	8 563	
5	Reynolds	9 592	
.889	Carter	5 504	
4	Ripley	13 099	
.89	Southeast counties		
.891	Madison	11 273	
.892	Wayne	15 181	
.893	Butler	20 624	
.894	Bollinger	14 576	
.895	Stoddard	27 807	
.896	Cape Girardeau	27 621	
.897	Scott	22 372	
.898	Mississippi	14 557	
5	New Madrid	19 488	
.899	Dunklin	30 328	
6	Pemiscot	19 559	

978 Western or Mountain

Including general works on 'the West'

.1 Kansas

1541 explored by Spanish
30 May 1854 organized as separate territory, after successiv inclusion in Louisiana and Missouri territories 29 Jan. 1861 admitted as 34th state
Area 81,774 sq. mi. Population 1,690,949 in 1910 105 counties
Sobriquet: Garden of the west Capital: Topeka

.2 Nebraska

30 May 1854 territory organized out of Missouri territory
1 Mar. 1867 admitted as 37th state
Area 76,808 sq. mi. Population 1,192,214 in 1910 92 counties
Sobriquet: Blackwater state Capital: Lincoln

.3 South Dakota Including works on Dakota as a whole

2 Nov. 1889 admitted as 40th state (Dakota ter. organized 2 Mar. 1861, divided into North and South Dakota)
Area 76,868 sq. mi. Population 583,888 in 1910 68 counties
Sobriquet: Coyote state Capital: Pierre

.4 North Dakota

2 Nov. 1889 admitted as 39th state (Dakota ter. organized 2 Mar. 1861, divided into North and South Dakota)
Area 70,183 sq. mi. Population 577,056 in 1910 49 counties
Sobriquet: Flickertail state Capital: Bismarck

.5

.6 Montana

26 May 1864 territory organized. Name means Mountain land
8 Nov. 1889 admitted as 41st state
Area 146,201 sq. mi. Population 376,053 in 1910 28 counties
Sobriquet: Treasure state Capital: Helena

.7 Wyoming

25 July 1868 Wyoming territory organized
10 July 1890 admitted as 44th state
Area 97,594 sq. mi. Population 145,965 in 1910 15 counties
Sobriquet: Stub Toe state Capital: Cheyenne

.8 Colorado

28 Feb. 1861 Colorado territory organized
1 Aug. 1876 admitted as 38th state
Area 103,658 sq. mi. Population 799,024 in 1910 60 counties
Sobriquet: Centennial state Capital: Denver

.9 New Mexico

2 Feb. 1848 ceded by Mexico
9 Sep. 1850 territory organized; enlarged 1853 by Gadsden purchase
6 Jan. 1912 admitted as 47th state Area 122,503 sq. mi.
Population 327,301 in 1910 26 counties Capital: Santa Fé

979 Pacific

.1 Arizona

2 Feb. 1848 ceded by Mexico, and enlarged by Gadsden purchase 1853
24 Feb. 1863 territory organized 14 Feb. 1912 admitted as 48th state
Area 113,810 sq. mi. Population 204,354 in 1910 13 counties
Sobriquets: Valentine, Hassayampa state Capital: Phoenix

.2 Utah

2 Feb. 1848 ceded by Mexico 9 Sep. 1850 territory organized
4 Jan. 1896 admitted as 45th state
Area 82,184 sq. mi. Population 373,351 in 1910 27 counties
Sobriquet: Salt Lake state Capital: Salt Lake City

.3 Nevada

2 Mar. 1861 territory organized 31 Oct. 1864 admitted as 36th state
Area 109,821 sq. mi. Population 81,875 in 1910 15 counties
Sobriquet: Silver state Capital: Carson

979.4 California

Admitted 9 Sep. 1850, as 31st state Area 155,652 sq. mi.
Population 2,377,549 in 1910 58 counties
Sobriquet: Golden state Capital: Sacramento

Northern or Superior California

Use 979.41 as a general number, including .41–.43

.41	Coast range counties, north	*Population in 1910*	
.411	Del Norte	2 417	
.412	Humboldt	33 857	
.414	Trinity	3 301	
.415	Mendocino	23 929	
.417	Lake	5 526	
.418	Sonoma	48 394	
.419	Napa	19 800	
.42	Northeast counties		
.421	Siskiyou	18 801	
.423	Modoc	6 191	
.424	Shasta	18 920	
.426	Lassen	4 802	
.427	Tehama	11 401	
.429	Plumas	5 259	
.43	North central counties		
.431	Glenn	7 172	
.432	Butte	27 301	
.433	Colusa	7 732	
.434	Sutter	6 328	
.435	Yuba	10 042	
.426	Sierra	4 098	
.437	Nevada	14 955	
.438	Placer	18 237	

Central California

Use 979.44 as a general number, including .44–.48

.44	East central counties		
.441	El Dorado	7 492	
.442	Amador	9 086	
.443	Alpine	309	
.444	Calaveras	9 171	
.445	Tuolumne	9 979	
.446	Mariposa	3 956	
.447	*Yosemite*		
.448	Mono	2 042	
.45	Central counties		
.451	Yolo	13 926	
.452	Solano	27 559	
.453	Sacramento	67 806	
.454	*Sacramento* (city)		*44 696*
.455	San Joaquin	50 731	
.456	*Stockton*		*23 253*
.457	Stanislaus	22 522	
.458	Merced	15 148	

California

979.46	West central counties San Francisco group		
.461	San Francisco co. and city	416 912	
.462	Marin	25 144	
.463	Contra Costa	31 674	
.465	Alameda	246 131	
	Alameda (city)		*23 383*
.466	*Oakland*		*150 174*
.467	*Berkeley*		*40 434*
.469	San Mateo	26 585	
.47	Coast range counties, south		
.471	Santa Cruz	26 140	
.473	Santa Clara	83 539	
.474	*San José*		*28 946*
.475	San Benito	8 041	
.476	Monterey	24 146	
.478	San Luis Obispo	19 383	
.48	South central counties		
.481	Madera	8 368	
.482	Fresno	75 657	
.483	*Fresno* (city)		*24 892*
.485	Kings	16 230	
.486	Tulare	35 440	
.487	Inyo	6 974	
.488	Kern	37 715	
	Southern California		
.49	Southern counties		
.491	Santa Barbara	27 738	
	Ilands: San Miguel, Santa Rosa, Santa Cruz, Santa Barbara		
.492	Ventura	18 347	
	Ilands: Anacapa, San Nicholas		
.493	Los Angeles	504 131	
	Ilands: Santa Catalina, San Clemente		
.494	*Los Angeles* (city)		*319 198*
.495	San Bernardino	56 706	
.496	Orange	34 436	
.497	Riverside	34 696	
.498	San Diego	61 665	
	San Diego (city)		*39 578*
.499	Imperial	13 591	

979.5 Pacific States

Oregon

14 Aug. 1848 territory organized 14 Feb. 1859 admitted as 33d state
Area 96,607 sq. mi. Population 672,765 in 1910 34 counties
Sobriquet: Beaver state Capital: Salem

.6 Idaho

3 Mar. 1863 territory organized. Part of Louisiana purchase. First included in Oregon, later in Washington territory
3 July 1890 admitted as 43d state
Area 83,354 sq. mi. Population 325,594 in 1910 23 counties
Sobriquet: Gem state Capital: Boise

.7 Washington

2 Mar. 1853 territory organized; earlier, part of Oregon territory
11 Nov. 1889 admitted as 42d state
Area 66,836 sq. mi. Population 1,141,990 in 1910 38 counties
Sobriquet: Evergreen state Capital: Olympia

.8 Alaska

30 Mar. 1867 ceded by Russia 24 Aug. 1912 organized as territory
Area 590,884 sq. mi. Population 64,356 in 1910 Capital: Sitka

980 South America

981 Brazil
982 Argentina Patagonia
983 Chile
984 Bolivia
985 Peru
986 U. S. of Colombia Panama New Granada Ecuador
987 Venezuela
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.1 Western Australia .2 South Australia .3 Queensland .4 New South Wales .5 Victoria .6 Tasmania
995 New Guinea
996 Polynesia
.1 Fiji, Friendly and Navigator ilands .2 Society, Austral and Cook's ilands .3 Marquesas ilands and Low Archipelago .4 Minor Polynesian ilands .5 **Micronesia** .6 Caroline and Pelew ilands .7 Ladrone ilands .8 Marshall and Gilbert ilands .9 Hawaii
997 Isolated ilands
998 Arctic regions
General number for Polar regions
999 Antarctic regions

RELATIV SUBJECT INDEX

INDEX ABBREVIATIONS

Cutter forename abbreviations Most common forenames of men are denoted by initial and colon; of women by initial and double period.

A.. Anna
A: Augustus
B.. Beatrice
B: Benjamin
C: Charles
C.. Charlotte
D: David
D.. Delia
E: Edward
E.. Elizabeth
F.. Fanny
F: Frederick
G: George
G.. Grace
H.. Helen
H: Henry
I: Isaac
I.. Isabella
J.. Jane
J: John
K: Karl
K.. Kate
L: Lewis
L.. Louisa
M: Mark
M.. Mary
N.. Nancy
N: Nicholas
O.. Olivia
O: Otto
P.. Pauline
P: Peter
R.. Rebecca
R: Richard
S: Samuel
S.. Sarah
T.. Theresa
T: Thomas
U: Ulrich
U.. Ursula
V: Victor
V.. Victoria
W.. Wilhelmina
W: William
Z.. Zenobia

Other abbreviations exclusiv of common geografic abbreviations and others selfexplanatory; e. g. those made by omitting final -ment, -ogy, -rafy, -tion, -ture, obscure syllables, etc.

adj.	adjutant
anal.	analysis
anat.	anatomy
anc.	ancient
antiq.	antiquities
arch.	archeology
	architecture
ass'n	association
astr.	astronomy
bibliog.	bibliografic
biog.	biografy
bldg	bilding
bus.	business
ch.	church
chem.	chemic
	chemistry
chr.	christian
civ.	civil
co.	county
cont.	contagious
cost.	costume
crim.	criminal
Dan.	Danish
dec.	decoration
descr.	description
	descriptiv
diff.	different
dis.	diseases
discov.	discovery
doc.	doctrin -al
dom.	domestic
dram.	drama
dwel.	dwelling
eccles.	ecclesiastic
	ecclesiology
econ.	economic -y
elec.	electric -ity
eng.	engineering
eth.	ethical, ethics
exped.	expedition
fest.	festival
fic. *or*	fiction
fict.	
gard.	gardening
gen.	general
geod.	geodesy
geog.	geografic
geol.	geology
geom.	geometry
gov. *or*	government
gov't	
histol.	histology
hist.	historic -y
hum.	humor
hyg.	hygiene
instr.	instrument
lang.	language
lib.	library -ian
lig.	ligament
lit.	literature
loc.	local -ity
mach.	machine -ry
manuf.	manufactures
mech.	mechanic
ment.	mental
meth.	methods
mfg	manufacturing
mil.	military
min.	mineral
	mining
misc.	miscellany
mon.	monastic
nat.	natural, nature
nonchr.	nonchristian
ord.	order, orders
ordn.	ordnance
org.	organ -ic
orig.	origin -al
phil.	philosofer -y
philol.	philology
phot.	photografic -y
phys.	physical
	physiologic -y
poet.	poetry
pol. *or*	political *or*
polit.	politics
prac.	practical
pres.	presidency
	president
prob.	probabilities
prot.	protection
psych.	psychologic -y
pub.	public
reg.	region
relig.	religion, -ous
rit.	ritual
sat.	satire
sci.	science, -tific
serm.	sermons
soc.	social, society
stat.	statutes
subj.	subject
tech.	technology
theol.	theologic -y
theor.	theoretic
therap.	therapeutics
wks	works

HOW TO USE THIS INDEX

Find the subject desired in its alphabetical place in the index. The number after it is its class number and refers to the place where the topic will be found, in numerical order of class numbers, on the shelves or in the subject catalogs. All class numbers are decimals; i. e., 571.34, Bronze remains, comes before 571.4, Iron age, and both of them before 572, Ethnology. Printed labels on the shelves or drawer fronts guide readily to the class number sought.

Under this class number will be found the resources of the library on the subject desired. Other subjects near the one sought may often be consulted with profit; e. g., Communism is the topic wanted and the index refers to 335.4, but 335, Socialism, and even the inclusive division 330, Political economy, also contain much on this subject. The reverse is equally true; the full material on Socialism can only be had by looking at its divisions 335.3, Fourierism, 335.4, Communism, etc. The topics which are thus subdivided are plainly marked in the index by heavy faced type.

THIS INDEX CONTAINS

in a single alphabet all the subjects named in the Complete Tables of the Decimal Classification together with their synonyms and such other useful topics as could be found in a selection of the largest dictionary and subject catalogs.

Where nothing is found under any number it shows that the library does not yet possess any book on that topic.

IT DOES NOT INCLUDE

all names of places, minerals, plants, etc., but gives only those used in the full tables and a farther selection of the most common and useful. It is not a biographical dictionary and gives **no names of persons** as biographical headings, but only such as appear in the tables in connection with some subject like Philosophy, Literature, or History.

To avoid swelling the index by frequent repetitions of long lists of sub-divisions under every country, language, etc., five general tables have been prepared; viz. 1, Geographical divisions; 2, Form divisions; 3, Languages; 4, Philological divisions; 5, Literatures. These are placed at the end and referred to from all such topics in the index. Explanations precede each index table.

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A L A publishing board 020.627
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The geografic numbers are formd by omitting initial 9 from the historical numbers given in tables 930–999, and these figures are simply affixt to the number given in the table below; e. g. Atlases are numberd in the table below 912; in the historical tables France is numberd 944; omitting initial 9 and affixing the remaining figures, 44, to 912 gives 912.44, Atlases of France; New South Wales is 994.4; omit initial 9 and affix 944 to 912 and the result is 912.944, Atlases of New South Wales. In the table below, Mints are 332.49; in the historical tables England is 942; adding these together (omitting the 9) gives 332.4942, Mints in England. Colleges are 378; N. Y. state, 974.7; add these together (omitting the 9) and the result is 378.747, Colleges in N. Y. state.

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923.5	Admirals' lives
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913.	Antiquities, archeology
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922.2	" " Roman catholic
720.9	Architecture, history of
923.5	Army biografy
709.	Art, history of
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581.9	Botany, geografic
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285.8	Congregational church
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370.9 " history of
373. " intermediate (private)
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373. " private academies
379. " public school
923.7 Educators' lives
372.9 Elementary education
325.2 Emigrants
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922.7 " " " biog.
572.9 Ethnology
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327. " relations
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Table 2 — Form Divisions

The form distinctions 01, Philosofy; 02, Compends; 03, Dictionaries; 04, Essays; 05, Periodicals; 06, Societies; 07, Study and Teaching; 08, Polygrafy, Collectiv works; 09, History, can be used wherever needed if these numbers are not alredy employd with other significations. They have been printed in the full tables only where they seemd specially needed.

The following is an alfabetic list of these divisions, and the figures prefixt should be *added* to the number of the subject to be subdivided; e. g. Disputations on Chemistry in general 540.4; Dictionaries of Mining 622.03.

06	Academies
06	Acts of societies
04	Addresses
06	Associations
02	Charts
08	Collected works
08	Collections
02	Compends
03	Concordances
03	Cyclopedias
03	Dictionaries
02	Digests
04	Discourses
04	Disputations
07	Education
03	Encyclopedias
04	Essays
06	Exhibitions
08	Extracts
09	History
04	Lectures
04	Letters
03	Lexicons
08	Libraries, collections, series
05	Magazines
02	Manuals
08	Maxims
01	Methods
08	Miscellanies
07	Museums
02	Outlines
04	Papers
05	Periodicals
01	Philosofy
08	Polygrafy
06	Reports of societies
05	Reviews
07	Schools
07	Seminaries
06	Societies
07	Study
02	Systems
07	Teaching
01	Theories
04	Tracts
07	Training schools
06	Transactions
08	Treatises
01	Utility

Table 3 — Languages

The table below includes all languages mentiond in the classification, except those in 494—499, not yet subdivided.

Any language in this table may be subdivided like 420, English.

Any philologic topic in the index may be transferd to another language by replacing the initial figures of the language, as found in this table, by those of the second language also found here; e. g., Syntax, English language, in the index is 425.2. In this table, English is 42 and French is 44; replacing the 42 by 44 gives 445.2 French syntax. Hebrew is 492.4, and Hebrew syntax is 492.452.

A third way to subdivide the language is to prefix the language figures as given in this table to the philologic numbers given in Table 4.

All three methods give the same result.

491.58	Afghani
492.8	Amharic
429.	Anglo Saxon
492.7	Arabic
492.1	Aramaic
491.54	Armenian
491.68	Armorican
492.19	Assyrian
491.52	Avestan, Zend
492.19	Babylonian
491.52	Bactrian, Old
491 68	Bas Breton
491.69	Basque
491.44	Bengali
491.86	Bohemian
491.68	Breton, Bas
491.81	Bulgarian
492.6	Carthaginian
449.9	Catalan
492.2	Chaldee
491.81	Church Slavonic
493.2	Coptic
491.67	Cornish
491.83	Croatian

492.19 Cuneiform
491.65 Cymric group
491.66 " or Welsh
439.8 Danish
439.4 Deutsch, Platt
439.3 Dutch
493.1 Egyptian, Old
42 English
427.01 " Old
491.61 Erse, Gadhelic group
491.63 " Gaelic
492.8 Ethiopic
477.5 Etruscan
493.6 Faroese
439.3 Flemish
44 French
447.01 " Old
439.2 Frisian
491.61 Gadhelic group
491.63 Gaelic or Scotch
43 German
437.02 " Middle High
437.01 " Old High
439.9 Gothic
48 Greek
489. " Modern
491.47 Gujerati
492.4 Hebrew
492.9 Himyaritic
491.43 Hindi
491.1 Hindu languages
491.43 Hindustani
491.53 Huzwaresh
439.6 Icelandic
491.1 Indic group
491.62 Irish
45 Italian
492.4 Jewish
491.83 Kroatian
491.57 Kurdish
47 Latin
479. " Medieval
491.93 Lettish
491.92 Lithuanian
491.93 Livonian
439.3 Low Dutch
479. " Latin
491.64 Manx
491.46 Marathi
479. Medieval Latin
437.02 Middle High German
489. Modern Greek
491.55 " Persian
491.87 Moravian
492.19 Nineveh cuneiform
439.6 Norse, Old
439.8 Norwegian
491.52 Old Bactrian
493.1 " Egyptian
427.01 " English
447.01 " French
437.01 " High German
439.6 " Norse
491.51 " Persian
491.91 " Prussian
439.2 " Saxon
491.45 Orissa
491.56 Ossetic
491.3 Pali
491.42 Panjabi
491.53 Pehlevi
491.55 Persian, Modern
491.51 " Old
492.3 Peshito
492.6 Phenician
439.4 Platt Deutsch
491.89 Polabian
491.85 Polish
469. Portugese
491.2 Prakrit
449. Provençal
491.91 Prussian, Old
491.58 Pushtu
459.9 Rhaeto-Romansch
489. Romaic
459. Rumanian
459.9 Rumansh
491.7 Russian
491.79 Ruthenian
492.5 Samaritan
491.2 Sanskrit
429. Saxon, Anglo-
439.2 " Old
439.5 Scandinavian languages
491.63 Scotch or Gaelic
491.82 Serbian
491.41 Sindi
491.48 Singhalese
491.81 Slavonic, Church
491.87 Slovakian
491.84 Slovenian
491.88 Sorbian
46 Spanish
439.7 Swedish
492.3 Syriac
491.45 Uriya
459. Wallachian
491.66 Welsh
491.52 Zend

Table 4.—Philological Divisions.

All the languages in Table 3 can be divided like 420, English, by adding the figures below; e.g.:

English orthography		421
Provençal	"	449.1
Arabic	"	492.71
Gaelic	"	491.631
Syntax of	English verbs	425.8
"	Modern Greek verbs	489.58
"	Danish "	439.858
"	Armenian "	491.5458
Inflection of	English nouns	425.15
"	Anglo-Saxon nouns	429.515
"	Hebrew "	492.4515
"	Welsh "	491.66515

18	Abbreviations.
12	Ablaut.
16	Accent, pronunciation.
61	" prosody.
51	Accidence.
25	Accusative, etymology.
55	" syntax.
26	Adjectival forms, derivation.
516	Adjectives, inflection.
56	" syntax.
29	Adverbs, derivation.
59	" syntax.
22	Affixes, derivation.
11	Alphabet.
21	Analogy.
53	Analysis, grammar.
67	Antistrophe, prosody.
28	Aorist, etymology.
58	" syntax.
7	Archaisms.
709	Argot.
53	Arrangement of words and clauses.
56	Articles, syntax.
12	Aspirates.
28	Augment, etymology.
83	Barbarisms.
83	Blunders.
25	Case endings, derivation.
55	Cases, syntax.
87	Chrestomathies.
53	Clauses, arrangement of.
516	Comparison, inflection.
26	Comparison, signs of, derivation.
54	Conditional sentences.
518	Conjugation.
29	Conjunctions, etymology.
59	" syntax.
28	Conjunctive mood, etymology.
58	" " syntax.
13	Consonants.
12	Crasis.
25	Dative case, etymology.
55	" " syntax.
515	Declension of nouns.
2	Derivation of words.
7	Dialects.
3	Dictionaries.
25	Diminutives, derivation.
12	Diphthongs.
17	Diplomatics.
701	Early forms of language.
86	Elementary readers.
53	Ellipsis.
52	Enallage.
83	Errors of speech.
2	Etymology, derivation.
51	" inflection.
89	Examination papers.
63	Feet, prosody.
64	Figures of prosody.
82	First lessons.
63	Foot, prosody.
24	Foreign elements.
25	Gender, etymology.
25	Genitive case, etymology.
55	" " syntax.
7	Glossaries, dialects.
3	" language.
83	Grammatical errors.
65	Hexameters.
64	Hiatus.
54	Hypothetical sentences.
31	Idioms.
88	Individual authors, texts.
28	Infinitive mood, etymology
58	" " syntax.
51	Inflection.
516	" of adjectives.
515	" " nouns.
517	" " pronouns.
518	" " verbs.
17	Inscriptions.
29	Interjections, etymology.
59	" syntax.
29	Interrogatives, etymology
59	" syntax.
21	Laws of language.
1	Letters, alphabet.

3 Lexicography.
3 Lexicons.
17 Manuscripts.
65 Meters, prosody.
28 Moods, signs of, derivation.
58 " syntax.
52 Morphology.
25 Noun forms, derivation.
515 Nouns, inflection.
55 " syntax.
25 Number, signs of, derivation.
701 Old forms of language.
21 Origin of language.
15 Orthoëpy.
1 Orthography.
17 Palæography.
52 Parsing.
29 Particles, derivation.
59 " syntax.
27 Personal pronouns, derivation.
14 Phonetic spelling.
82 Phrase book.
27 Possessive pronouns, derivation.
57 " " syntax.
22 Prefixes, derivation.
29 Prepositions "
59 " syntax.
27 Pronominal forms, derivation.
517 Pronouns, inflection.
57 " syntax.
15 Pronunciation.
82 Prose composition.
6 Prosody.
7 Provincialisms.
19 Punctuation.
61 Quantity, prosody.
86 Readers, elementary.
87 " selections.
23 Reduplication, derivation.
27 Relative pronouns, "
57 " " syntax.
66 Rhymes, prosody.
66 Rhyming dictionary.
8 School books and texts.
87 Selections, readers.
54 Sentences of particular form
709 Slang.
81 Spelling books.
14 " reform.
67 Strophe, prosody.
22 Suffixes, derivation.
4 Synonyms.
52 Syntax.
28 Tense signs, derivation.
58 " syntax.
8 Text books.
68 " " for writing verse.
88 Texts of individual authors.
12 Umlaut.
83 Use of words.
28 Verbal forms, derivation.
518 Verbs, inflection.
58 " syntax.
68 Verse, text books for writing.
62 Versification.
28 Voice signs, derivation.
12 Vowels.
83 Vulgarisms.
53 Words, arrangement of.
2 " etymology.
83 " use of.

Table 5. — Literatures.

The form divisions of English literature: 1, Poetry; 2, Drama; 3, Fiction; 4, Essays; 5, Oratory; 6, Letters; 7, Satire and Humor; 8, Miscellany; may be used to sub-divide any of the languages in the following tables; and any division of English literature in the index referring to this table may be used in sub-dividing another literature, by replacing the initial figures 82 (denoting English) by the figures of the 2d language as given in this table.

Thus Ballads, English literature in the index are 821.04 and in this table Spanish is 86, therefore 861.04 is Spanish ballads; 891.7 is Russian and 891.7104 is Russian ballads.

While this minute division is possible, it is not expedient in all cases: e. g. Icelandic literature will contain little except in one or two of these divisions and a special arrangement similar to 829 Anglo-Saxon is much more convenient.

891.58	Afghani.
892.8	Amharic.
892.7	Arabic.
892.1	Aramaic.
891.54	Armenian
891.68	Armorican.
892.19	Assyrian.
891.52	Avestan, Zend.
892.19	Babylonian.
891.52	Bactrian, Old.
891.68	Bas Breton.
891.69	Basque.
891.44	Bengali.
891.86	Bohemian.
891.68	Breton, Bas.
891.81	Bulgarian.
892.6	Carthaginian.
849.9	Catalan.
892.2	Chaldee.
891.81	Church Slavonic.
893.2	Coptic.
891.67	Cornish.
891.83	Croatian.
892.19	Cuneiform.
891.65	Cymric Group.
891.66	" or Welsh.
839.8	Danish.
839.4	Deutsch, Platt.
839.3	Dutch.
893.1	Egyptian, Old.
82	English.
891.61	Erse, Gadhelic group.
891.63	" Gaelic.
892.8	Ethiopic.
839.6	Faroese.
839.3	Flemish.
84	French.
839.2	Frisian.
891.61	Gadhelic Group.
891.63	Gaelic or Scotch.
83	German.
839.9	Gothic.
889.	Greek, Modern.
891.47	Gujerati.
892.4	Hebrew.
892.9	Himyaritic.
891.43	Hindi.
891.1	Hindu languages.
891.43	Hindustani.
891.53	Huzwaresh.
839.6	Icelandic.
891.1	Indic Group.
891.62	Irish.
85	Italian.
892.4	Jewish.
891.83	Kroatian.
891.57	Kurdish.
879.	Latin, Medieval.
891.93	Lettish.
891.92	Lithuanian.
891.93	Livonian.
839.3	Low Dutch.
879	" Latin.
891.64	Manx.
891.46	Marathi.
879.	Medieval Latin.
889.	Modern Greek.
891.55	" Persian.
891.87	Moravian.
892.19	Nineveh Cuneiform.
839.6	Norse, Old.
839.8	Norwegian.
891.52	Old Bactrian.
893.1	" Egyptian.
839.6	" Norse.
891.51	" Persian.
891.91	" Prussian.
839.2	" Saxon.
891.45	Orissa.
891.56	Ossetic.
891.3	Pali.
891.42	Panjabi.
891.53	Pehlevi.
891.55	Persian, Modern.
891.51	" Old.
892.3	Peshito.
892.6	Phenician.
839.4	Platt Deutsch
891.89	Polabian.
891.85	Polish.
869.	Portuguese.
891.2	Prakrit.

849.	Provençal.
891.91	Prussian, Old.
891.58	Pushtu.
859.9	Rhaeto-Romansch.
889.	Romaic.
859.	Roumanian.
859.9	Rumansh.
891.7	Russian.
891.79	Ruthenian.
892.5	Samaritan.
891.2	Sanskrit.
839.2	Saxon, Old.
839.5	Scandinavian languages.
891.63	Scotch or Gaelic.
891.82	Servian.
891.41	Sindhi.
891.48	Singhalese.
891.81	Slavonic, Church.
891.87	Slovakian.
891.84	Slovenian.
891.88	Sorbian.
86	Spanish.
839.7	Swedish.
892.3	Syriac.
891.45	Uriya.
859.	Wallachian.
891.66	Welsh.
891.52	Zend.

Biscoe time and Olin biografy book numbers

Biscoe time numbers This scheme provides for arranging books by years from 1000 B C–2000 A D. Each number consists of a single initial letter followd by figures, and these again, if necessary, by letters. Any year of the 19th century, in which the greater proportion of our books belong, is designated by a letter and single figure. For the 3 preceding centuries a letter and 2 figures are needed, only incunabula and ancient writings requiring a letter and 3 figures. Few characters are wasted for the period when few books were written, as A, B, and C cover the years to 1499 A D.

To D, E, F, which stand for centuries, 2 figures must be added, the number for a book publisht in 1652 being E52; in 1507, D07.

B, covering the first 10 centuries and C, covering 5 centuries, must be followd by 3 figures; thus a book issued in 1472 would be numberd C472.

Table of Biscoe numbers

A	B. C.	**J**	1830–1839	**S**	1920–1929
B	A. D. 1–999	**K**	1840–1849	**T**	1930–1939
C	1000–1499	**L**	1850–1859	**U**	1940–1949
D	1500–1599	**M**	1860–1869	**V**	1950–1959
E	1600–1699	**N**	1870–1879	**W**	1960–1969
F	1700–1799	**O**	1880–1889	**X**	1970–1979
G	1800–1809	**P**	1890–1899	**Y**	1980–1989
H	1810–1819	**Q**	1900–1909	**Z**	1990–1999
I	1820–1829	**R**	1910–1919		

American books take their numbers from the last copyright date; English and other foren books, from date of publication: e. g. Dana's *Text book of geology*, Phil. 1864, copyright '63 has as its booknumber M3; edition 2 of the same book publisht and copyrighted in 1874 is N4. Weller's *Portable atlas of physical geography*, London 1873, is N3.

A series or set takes its number from the first volume, even tho that may be lacking in the library set; e. g. *Popular science monthly*, v. 10-20, is M2, the date of v. 1 not of v. 10. When more than one volume in the same class calls for the same number, these numbers are differentiated by adding lower case letters; e. g. Bradbury & Emery's *Academic algebra*, Sensenig's *Numbers universalized*, and Well's *Short course in higher algebra* all publisht in 1889 call for O9. Supposing them to come into the library in the above order, Bradbury would be O9; Wells O9a; Sensenig, O9b. In a closely clast library additions to final subdivisions are seldom more than one a year. In the exceptional cases, use of a letter allows for 26 additions; the numbers are therefore neither long nor complicated.

If in dout, an approximate date may be used and corrected later when full information is acquired. Hunting down obscure dates consumes a

great deal of time and in the average library is not worth what it costs. L alone would mean a book publisht somewhere in the '50s of the present century, and F9 one of the last decade of the 18th (F09 being the mark for 1709). This occasional uncertainty is analogous to the case of anonymous and pseudonymous books in an author arrangement.

Dates B. C. may be treated in any one of the 3 ways suggested below. If numbers are given from date of writing or first publication there will be a few A books; but if from date of printing or copyright, none at all. Of the 3 ways below of treating dates B. C. the first is best:

1 Subtract the decade B. C. from 99 and use the resulting number, thus securing correct order with a shorter number than in 2. This approximate date is close enough, since exact year of writing is difficult to determin and the number of books in any subject in a single decade small.

Alternativs are:

2 Subtract the date B. C. from 1000 and use the resulting number, which will secure proper sequence.

3 Use actual B. C. date, since among so few books no great confusion would result from thus inverting the regular order.

Resulting numbers would then be:

Year B. C.	Complementary decade (1)	Complementary year (2)	Actual date (3)
999	Correct order A00	A001	Inverted order A999
563	A43	A437	A563
73	A92	A927	A73
45	A95	A955	A45

Olin book numbers The best means of separating collectiv from individual biografy is Olin book numbers. They are used exactly like Cutter author numbers; but as they translate all surnames of compilers into A followd immediately by figures, they precede the first Cutter number, Aa1 and thus automatically shelv biografic compilations before the cutterd individual lives; e. g. Strickland's *Queens of England* would be A84 (Olin number) and stand before a life of Queen Anne, An7 (Cutter number) whether clast 920 or 923.1.

See next page for table.

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Table of Olin numbers

From *Library journal* 18:144.

Name	Number	Name	Number	Name	Number	Name	Number
A	A11	Forr	A34	Lod	A56	Sch	A78
Ba	A12	Ga	A35	Ma	A57	Scr	A79
Bel	A13	Ges	A36	McT	A58	Sea	A81
Boy	A14	Goe	A37	Mat	A59	Sia	A82
Ca	A15	Grat	A38	Merr	A61	Sma	A83
Caro	A16	Ha	A39	Mo	A62	Squa	A84
Cel	A17	Hat	A41	Mos	A63	Sva	A85
Chim	A18	Hesi	A42	Na	A64	Ta	A86
Clar	A19	Hiu	A43	Nee	A65	Thau	A87
Coh	A21	Hov	A44	O	A66	To	A88
Coom	A22	I	A45	Pa	A67	Trum	A89
Cs	A23	Ja	A46	Per	A68	U	A91
Da	A24	Ji	A47	Ple	A69	V	A92
Day	A25	Ka	A48	Q	A71	Wa	A93
Dick	A26	Keno	A49	Ra	A72	Wats	A94
Doy	A27	Klu	A51	Rem	A73	Wha	A95
Ea	A28	La	A52	Rim	A74	Wit	A96
En	A29	Lann	A53	Rol	A75	X	A97
Fa	A31	Le	A54	Ru	A76	Y	A98
Fel	A32	Lind	A55	Sa	A77	Z	A99
Fit	A33						

If Cutter-Sanborn tables (in which vowels like consonants are followd by figures) are used, mark collected biografy with A followd by a shortend Cutter-Sanborn number for author or compiler, writing the initial letter of the Cutter-Sanborn number with a lower case letter; e. g. Strickland's *Lives of the queens of England*, the Cutter-Sanborn number for Strickland being S917, would be markt As9 or Johnston's *Leading American soldiers*, the number for Johnston being J73, would be Aj7

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